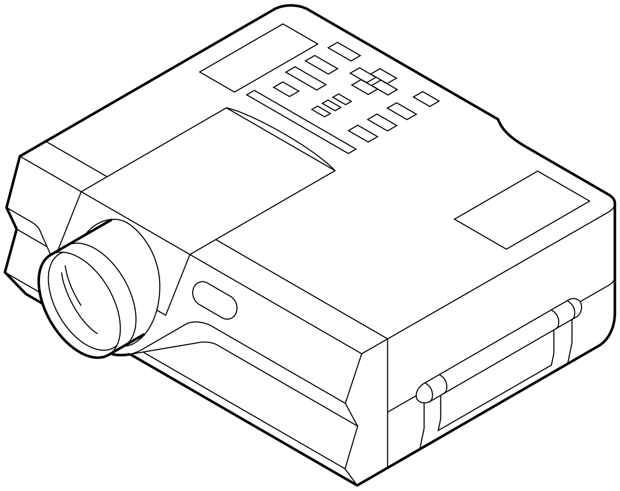
SERVICE MANUAL

MODEL	DEST.	MODEL
VPL-S900U	US/CND	*RM-PJM600*
VPL-S900E	AEP	*PSS-600*
VPL-S900M	AEP	
IFB-X600E	AEP	



VPL-S900U/S900E/S900M	LCD Data Projector
IFB-X600E	Interface Board (FOR VPL-X1000E/S900E)
RM-PJM600	Remote Commander
PSS-600	Projector Suspension

LCD DATA PROJECTOR

SONY®

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injuly, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

HIGH TEMPERATURE OF THE LAMP

THE TEMPERATURE AROUND THE LAMP BECAME AWFULLY HIGH WHILE THE POWER ON OR IMMEDIATELY AFTER POWER OFF. HANDLE WITH CARE TO NOT SCALED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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http://getMANUAL.com

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SECTION 1
OPERATING INSTRUCTIONS

1-1. VPL-S900U/S900E/S900M OPERATING INSTRUCTIONS

SONY

VPL-S900U/S900E/S900M

SONY

3-865-933-**11** (1)

LCD Data Projector

Operating Instructions EN
Mode d’emploi F
Manual de instrucciones ES

VPL-S900U
VPL-S900E
VPL-S900M

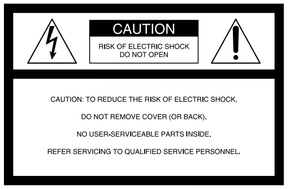
© 1998 by Sony Corporation

English

WARNING

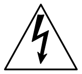
To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

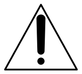


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



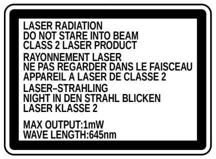
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

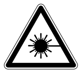
For the customers of VPL-S900E/S900M



LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
RAYONNEMENT LASER
NE PAS REGARDER DANS LE FAISCEAU
APPAREIL A LASER DE CLASSE 2
LASER–STRAHLING
NIGHT IN DEN STRAHL BLICKEN
LASER KLASSE 2

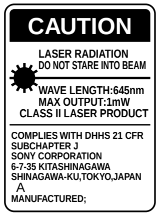
MAX OUTPUT:1mW
WAVE LENGTH:645nm

This label is located on the rear of the Remote Commander.



This label is located on the side of the Remote Commander.

For the customers of VPL-S900U



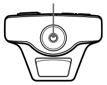
CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
WAVE LENGTH:645nm
MAX OUTPUT:1mW
CLASS II LASER PRODUCT
COMPLIES WITH DHHS 21 CFR
SUBCHAPTER J
SONY CORPORATION
6-7-35 KITASHINAGAWA
SHINAGAWA-KU,TOKYO,JAPAN
A
MANUFACTURED;

This label is located on the rear of the Remote Commander.

AVOID EXPOSURE-LASER
RADIATION IS EMITTED
FROM THIS APERTURE.

This label is located on the rear of the Remote Commander.

Laser light shines out of this window.



Caution

use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes

- Do not aim the laser at people or not look into the laser transmitter.
- When the Remote Commander causes mulfunction, consult with qualified Sony personnel. We change the Remote Commander as new one according to the guarantee.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

For the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

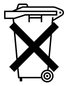
IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland



Bij dit product zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

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Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected to the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not aim the laser at people or not look into the laser transmitter.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- When the projector is mounted on the ceiling, the Sony PSS-600 Projector Suspension Support must be used for installation.
- Be careful not to catch your fingers by the adjusters when you lift up the projector. Do not push hard on the top of the projector with the adjusters out.

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

After you turn off the power with the I / ⏻ key on the Remote Commander or on the control panel, do not disconnect the unit from the wall outlet while the cooling fan is still running.

Caution
The projector is equipped with ventilation holes (intake) at the bottom and ventilation holes (exhaust) on the front. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Features

High brightness, high picture quality

- **High brightness**
  The LCD panel with higher aperture ratio and the 120 W UHP lamp allow high brightness (light output 900 ANSI lumen) and excellent uniformity on the picture.
- **High resolution**
  By adopting three 1.3-inch, about 480,000-pixel SVGA panels, this projector offers resolution of 800 × 600 dots for RGB input and 600 horizontal TV lines for video input.

Simple setup

- **Sony original APA (Auto Pixel Alignment) function**
  You can get the clearest picture automatically by simply pressing the APA key when the signal is input from a computer.
- **Simple setup with external equipment**
  This projector has 38 kinds of preset data for input signals. You can get a suitable picture by connecting an equipment with supplied cable and pressing the APA key.

Easy presentation

- **Remote Commander with mouse control and laser pointer functions**
  You can operate a computer with the Remote Commander since the unit has a build-in mouse receiver. For your presentation, you can use the laser pointer built in the Remote Commander as well.
- **High portability**
  This projector has come to miniaturized to 5.9 kg (13 lb) of mass and 12 cm (4 3/4 inches) of height. With such a feature, a carrying handle and a front cover to keep the Remote Commander contribute to a convenient carrying.

Accepts various input signals

- **Scan converter loaded**
  This projector has a build-in scan converter which converts the input signal within 800 × 600 dots.
- **Compatible input signals**
  This projector accepts video signals of the composite, S video, and component as well as the 15 k RGB, VGA[1)], SVGA[1)] XGA[1)], and SXGA[1)] signals, which all can be displayed.
- **Compatible with five color systems**
  NTSC, PAL, SECAM, NTSC 4.43[2)], or PAL-M color system can be selected automatically or manually.

Note on the VPL-S900E model

The optional IFB-X600E Interface Board is required for video composite input.

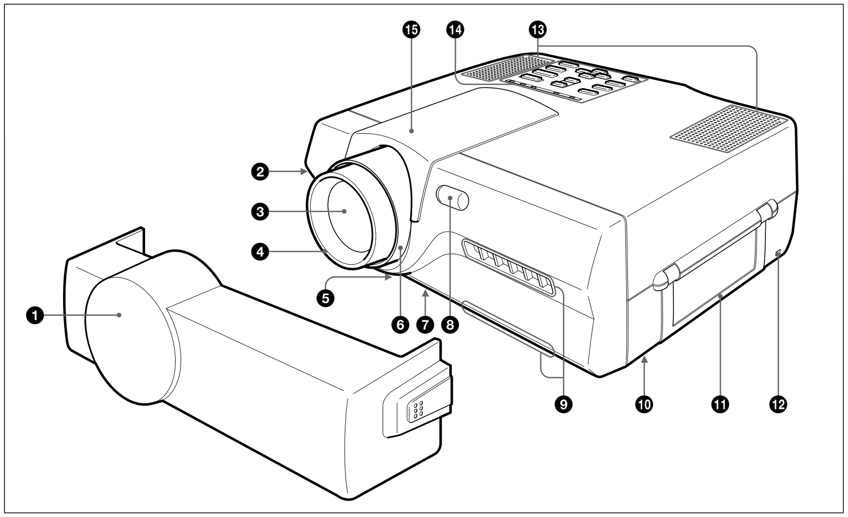
---

1) VGA, SVGA, XGA, and SXGA are registered trademarks of the International Business Machines Corporation, U.S.A.

2) NTSC4.43 is the color system used when playing back a video recorded on NTSC on a NTSC4.43 system VCR.

Location and Function of Controls

Front



❶ Front cover
Installs the Remote Commander in the back of the front cover.

❷ Front adjuster button

❸ Lens
Remove the front cover and the lens cap before projection.

❹ Focus ring
Adjusts the picture focus.

❺ Ventilation holes (bottom / intake)

❻ Zoom ring
Adjusts the size of the picture.

❼ Front adjuster
Used to keep the projector level if it is installed on an uneven surface.
For details on how to use the adjusters, see "How to use the adjusters" on page 11 (EN).

❽ Front remote control detector

❾ Ventilation holes (exhaust)

Notes

- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.

❿ Lamp cover (bottom)

⓫ Carrying handle
Used for carrying the projector.

⓬ Security lock
Connects to an optional security cable (Kensington's).

The security lock corresponds to Kensington's MicroSaver Security System.
If you have any comment, contact
Kensington
2853 Campus Drive, San Mates, CA 94403
U.S.A.
Tel: 800-535-4242: extension 3348
Home page address: http://www.kensington.com/

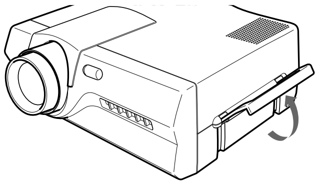
⑬ Speakers

⑭ Control panel
For details, see “Control panel” on page 11 (EN).

⑮ Lens hood

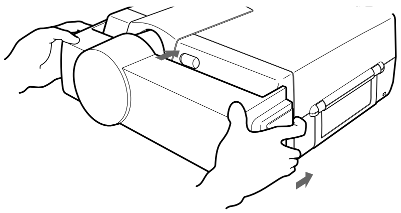
How to use the carrying handle

Pull up the handle from the projector for carrying.



How to attach the front cover

Attach the front cover on the front cabinet by stretching out both right and left sides on the front cover.

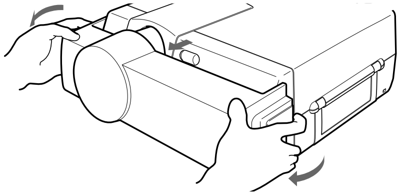


Notes

- Do not plug or turn on the projector when the front cover is attached.
- Do not hold the front cover when you carry the projector.

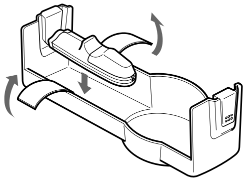
How to remove the front cover

Remove the front cover from the front cabinet by stretching out both right and left sides on the front cover.



How to install the Remote Commander in the front cover

Install the Remote Commander in the back of the front cover and fix it with the velcro tapes. When housing the Remote Commander, make sure that the infrared transmitter faces outside and rear faces upwards.



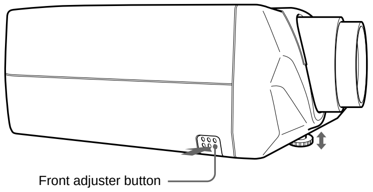
Note

Set the COMMAND ON/OFF switch on the Remote Commander to OFF before installing the Remote Commander.

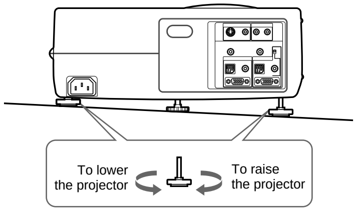
How to use the adjusters

While lifting the projector, adjust the height so that the projector becomes level.
There are one adjuster at the front and two at the rear of the projector.

As for the front adjuster, press the front adjuster button while lifting the projector to adjust the height. Turn the front adjuster for fine adjustment.



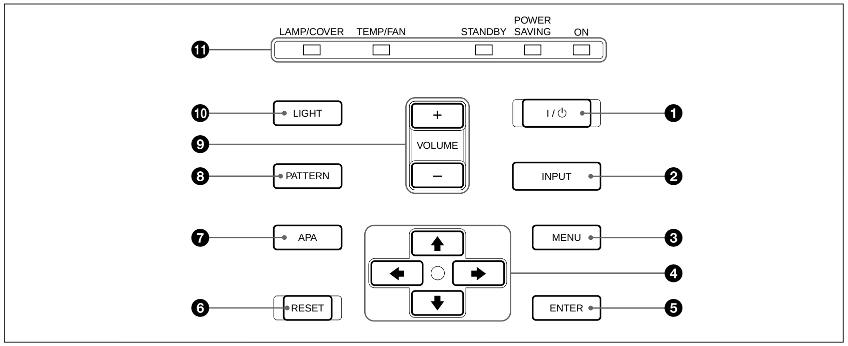
As for the rear adjusters, turn them for adjustment.



Notes

- Be careful not to let the projector down on your fingers.
- Do not push hard on the top of the projector with the adjusters out.
- Do not force the rear adjusters when you turn them. Using too much force may result in damage.

Control panel



① I / ⏻ (on / standby) key
Turns on and off the projector when the projector is in the standby mode. The ON indicator lights in green when the power is turned on.
When turning off the power, press the I / ⏻ key twice following the message on the screen, or press and hold the key for about one second.
For details on steps for turning off the power, see “To turn off the power” on page 24 (EN).

② INPUT key
Selects the input signal. Each time you press the key, the input signal switches as follows (When the RGB IN/OUT select switch is set to OUT, you cannot select INPUT B.):

→ VIDEO/AUDIO IN → S VIDEO/AUDIO IN
INPUT B ← INPUT A ←

Note on the VPL-S900E model

The optional IFB-X600E Interface Board is required for VIDEO IN and AUDIO IN jacks.

③ MENU key
Displays the on-screen menu. Press again to clear the menu.

④ Arrow keys (↑/↓/←/→)
Used to select the menu or to make various adjustments.

(Continued)

❺ ENTER key
Enters the settings of items in the menu system.

❻ RESET key
Resets the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

❼ APA (Auto Pixel Alignment) key
Adjusts a picture to be projected clearest automatically while a signal from the computer is input.

❽ PATTERN key
Displays an H pattern on the screen for focus, zoom adjustments. Press again to clear the pattern.

❾ VOLUME +/– keys
Adjust the volume of the built-in speakers and output level of the AUDIO OUT jacks.
+ : Increases the volume.
– : Decreases the volume.

❿ LIGHT key
Lights the back lighting (orange) for the keys on the control panel when the power is turned on. Press again to turn off the back lighting.

⓫ Indicators

ON: Lights in green when the power is turned on. Flashes in green while the cooling fan runs after turning off the power with the **I / ⏻** key. The fan runs for about 90 seconds after turning off the power.
The ON indicator flashes quickly for the first 30 seconds.
During this time, you cannot turn the power back on with the **I / ⏻** key.

POWER SAVING: Lights up when the projector is in the power saving mode. When POWER SAVING in the SET SETTING menu is set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes. Although the lamp goes out, the cooling fan keeps running. In the power saving mode, any key does not function for the first 30 seconds. The power saving mode is canceled when a signal is input or any key is pressed.

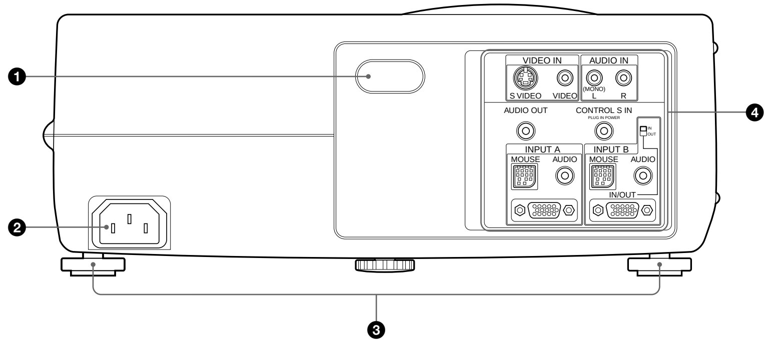
STANDBY: Lights in red when the AC power cord is plugged into the wall outlet.
Once in the standby mode, you can turn on the projector with the **I / ⏻** key on the Remote Commander or on the control panel.

TEMP (Temperature)/FAN: Lights up or flashes under the following conditions:
- Lights up when temperature inside the projector becomes unusually high.
- Flashes when the fan is broken.

LAMP/COVER: Lights up or flashes under the following conditions:
- Lights up when the lamp has reached the end of its life.
- Flashes when the lamp cover or air filter cover is not secured firmly.

For details on the LAMP/COVER and the TEMP/FAN indicators, see page 39 (EN).

Rear



The illustration above is the VPL-S900U/M model.

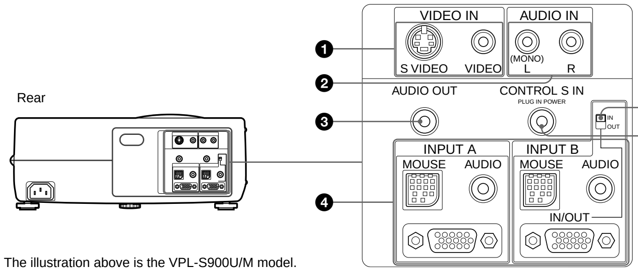
❶ Rear remote control detector

❷ AC IN socket
Connects the supplied AC power cord.

❸ Rear adjusters
Used to keep the projector level if it is installed on an uneven surface.
For details on using the adjusters, see "How to use the adjusters" on page 11 (EN) .

❹ Connector panel
For details, see page 14 (EN).

Connector panel



The illustration above is the VPL-S900U/M model.

❶ VIDEO IN jacks
Connect to external video equipment such as a VCR.

S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.

VIDEO (phono type): Connects to the composite video output of video equipment.

❷ AUDIO IN L (MONO)/R jacks (phono type)
Connect to the audio output of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

❸ AUDIO OUT jack (stereo minijack)
Connects to external active speakers.
The volume of the speakers can be controled by the VOLUME keys on the Remote Commander or the control panel.

❹ INPUT A/INPUT B connectors
Connect to external equipment such as a computer. You can control the mouse signal with the Remote Commander.

MOUSE (13-pin): Connects to the mouse port on a computer to control the mouse function using the supplied mouse cable.

AUDIO (stereo minijack): Connects to the audio output on a computer to input the audio signal.

RGB input (INPUT A) / RGB IN/OUT (INPUT B) (HD D-sub 15-pin, female): Connects to the monitor output on a computer using the supplied cable. When inputting a component, or 15k RGB signal, use the optional cable.

As for the RGB IN/OUT connector on INPUT B, you can use it as an output connecor with the RGB IN/OUT select switch. This connector outputs the signal which input through the RGB input connector on INPUT A.

❺ RGB IN/OUT select switch
Switches the input/output of the RGB IN/OUT connector on INPUT B.

IN: Functions as an input connector.

OUT: Functions as an output connector. The RGB IN/OUT connector outputs the signal which input through the RGB input connector on INPUT A. The MOUSE connector and AUDIO jack on INPUT B do not function at this time.

❻ CONTROL S IN/PLUG IN POWER jack (DC 5 V output, stereo minijack)
Connects to the CONTROL S OUT jack on the supplied Remote Commander with the stereo connecting cable (not supplied) when using it as a wired Remote Commander. You do not need to install the batteries since the power is supplied via this jack. Batteries are required when you use the laser pointer function.

Note on the VPL-S900E model

The optional IFB-X600E Interface Board is required for the VIDEO IN ❶ and AUDIO IN ❷ jacks.

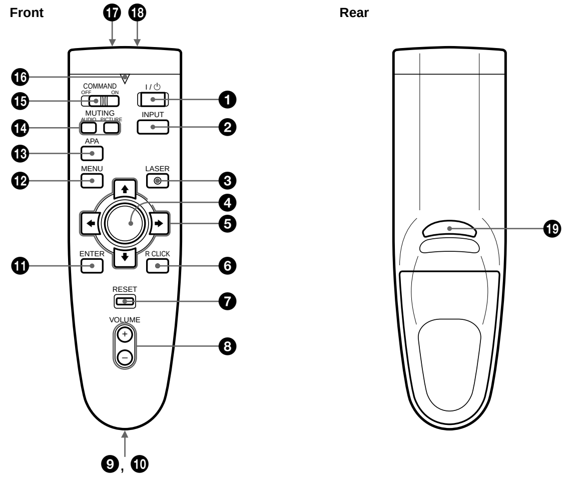
Remote Commander

The Remote Commander can be used as a wireless or wired Remote Commander.
The keys which have the same names as on the control panel function identically.
You can control a connected computer using the Remote Commander.

For details, see “Connecting with a Computer” on page 18 (EN).

Notes on laser beam

- **Do not look into the laser transmitter.**
- **Do not aim the laser at people.**



❶ I / ⏻ key

❷ INPUT key

❸ LASER key
Emits laser beam from the laser transmitter when you press this key.

❹ Joy stick
Functions as a mouse of a computer connected to the unit.

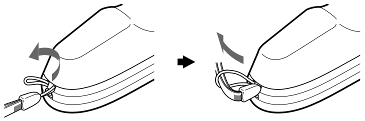
❺ Arrow keys (↑/↓/←/→)

❻ R CLICK key
Functions as a right button on a mouse. When connected to a Macintosh[1] computer, the R CLICK key functions as a mouse button.

❼ RESET key

❽ VOLUME +/– keys

❾ Strap holder
Attaches the supplied strap.



(Continued)

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1) Macintosh is a registered trademark of Apple Computer, Inc.

http://getMANUAL.com

⑩ CONTROL S OUT jack (stereo minijack)
Connects to the CONTROL S IN jack on the projector with the connecting cable (not supplied) when using the Remote Commander as a wired one. In this case, you do not need to install the batteries since the power is supplied via the CONTROL S IN jack on the projector.

⑪ ENTER key

⑫ MENU key

⑬ APA (Auto Pixel Alignment) key

⑭ MUTING keys
Cut off the picture and sound.

PICTURE: Cuts off the picture. Press again to restore the picture.

AUDIO: Cuts off the sound from speakers and AUDIO OUT jack. Press again or press the VOLUME + key to restore the sound.

⑮ COMMAND ON/OFF switch
When this switch is set to OFF, no key on the Remote Commander function. This saves the battery power.

⑯ Transmission indicator
Lights up when you press a key on the Remote Commander.
This indicator does not light up when you use the laser pointer.

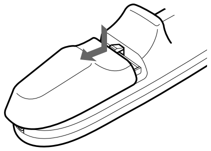
⑰ Infrared transmitter

⑱ Laser transmitter

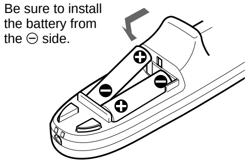
⑲ L CLICK key
Functions as a left button on a mouse. When connected to a Macintosh computer, the L CLICK key functions as a mouse button.

Battery installation

1 Push and slide to open the lid.



2 Install the two size AA (R6) batteries (supplied) with the correct polarity.



3 Replace the lid.

Notes on batteries

- Make sure that the battery orientation is correct when inserting batteries.
- Do not mix an old battery with a new one, or different types of batteries.
- If you will not use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If batteries have leaked, remove them, wipe the battery compartment dry and replace the batteries with new ones.

Notes on wireless Remote Commander operation

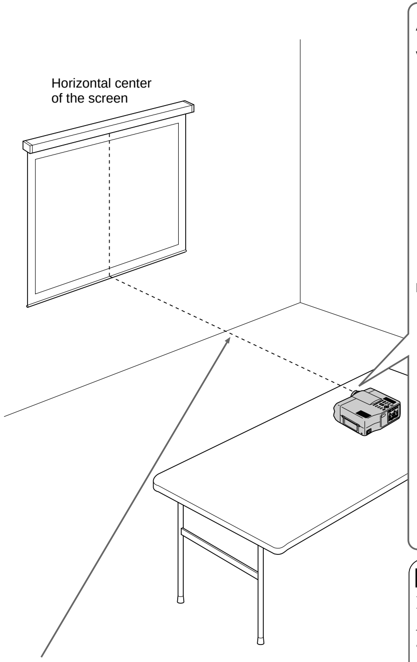
- Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remote control detector on the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector is, the wider the angle within which the commander can control the projector.
- The remote control detectors on the projector do not function when the connecting cable (not supplied) is connected to the projector. When using the Remote Commander as a wireless Remote Commander, remove the connecting cable from both the Remote Commander and the projector.

Note on wired Remote Commander operation

The laser pointer function does not work when you use the Remote Commander as a wired one without batteries.

Installing the Projector

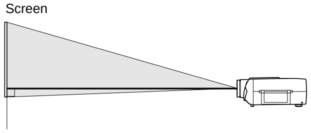
This section describes the installation arrangements for installing the projector on a table. For ceiling installation, consult with qualified Sony personnel (see page 34 (EN)).



The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.

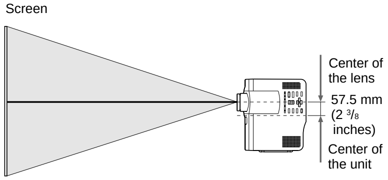
Adjust the vertical and horizontal positioning of the projector.

Vertical positioning (side view)



Adjust the height of the projector so that the center of the lens is just above the bottom edge of the screen.

Horizontal positioning (top view)

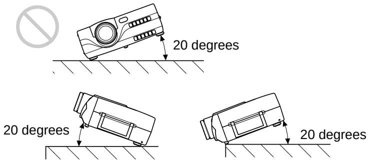


Adjust the horizontal positioning of the projector so that the lens is aligned with the horizontal center of the screen.

Note

Install the projector to be level.
Avoid followings which may cause malfunction.

- The projector topples over on its side.
- The projector titles more than 20 degrees.



The following table shows the projection distance when the SVGA signal (horizontal 800 × vertical 600 dots) is input.

- When XGA/SXGA signal is input, the projection distance becomes shorter by 1.6%.
- When the Macintosh 16-inch mode or HDTV signal is input, the projection distance becomes shorter by 4%.

Unit: m (feet)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
Distance	Minimum	1.6 (5.2)	2.4 (7.9)	3.2 (10.6)	4.1 (13.4)	4.9 (16.1)	6.2 (20.2)	7.4 (24.3)	8.2 (27.0)	10.3 (33.9)	12.4 (40.7)
	Maximum	2.0 (6.6)	3.0 (10.0)	4.1 (13.4)	5.1 (16.8)	6.2 (20.3)	7.8 (25.4)	9.3 (30.5)	10.4 (34.0)	13.0 (42.6)	15.6 (51.1)

For detailed information on installation measurements, see page 33 (EN).

Connecting

Note on the VPL-S900E model
The optional IFB-X600E Interface Board is required for the VIDEO IN and AUDIO IN jacks.

Connecting with a Computer

This section describes how to connect the projector with a computer.
For details on how to connect VCR or other equipment, see page 20 (EN).

When the projector is connected to a computer, you can control the mouse of a computer by the Remote Commander.
The R/L CLICK keys and joy stick function as follows.

Note

Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remoter control detector on the projector.

Key and joy stick	Function	
	IBM PC/AT[a] compatible, Serial	Macintosh
R CLICK (front)	Right button	Mouse button
L CLICK (rear)	Left button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

a) IBM PC/AT is a registered trademark of International Business Machines Corporation, U.S.A.

Also refer to the instruction manual of equipment to be connected.

Notes

- This unit accepts the VGA, SVGA, XGA, and SXGA signals. However, we recommend you to set the output mode of your computer to the SVGA mode for the external monitor. (For Macintosh computer, set the output mode to 16-inch mode.)
- If you set your computer, such as a notebook type IBM PC/AT compatible, to output the signal to both the display of your computer and the external monitor, the picture of the external monitor may not appear properly. In such cases, set the output mode of your computer to output the signal to only the external monitor.
  For details, refer to the operating instructions supplied with your computer.

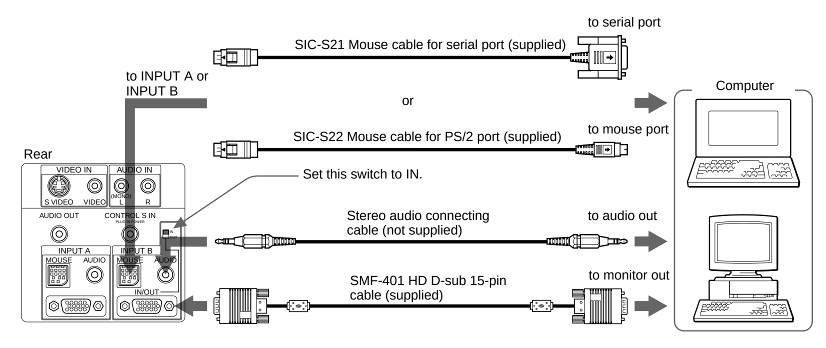
When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

Notes

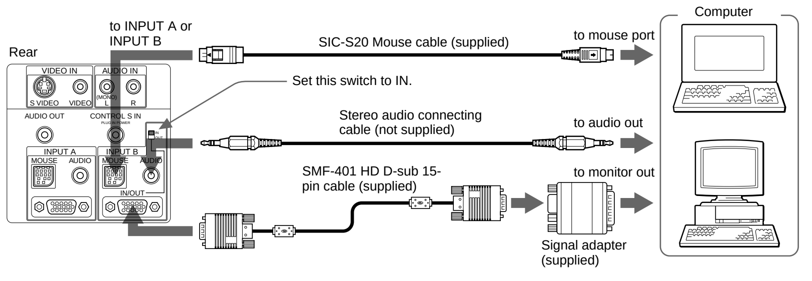
- Connect all the connecting cables to the INPUT A connector when you input a signal from the INPUT A connector.
  Connect all the cables to the INPUT B connector when you input a signal from the INPUT B connector as well.
- When connecting to INPUT B, make sure that the RGB IN/OUT select switch is set to IN.
- Supplied mouse cable may not work properly according to your computer.

When connecting with an IBM PC/AT compatible computer


to serial port
SIC-S21 Mouse cable for serial port (supplied)
to INPUT A or INPUT B
or
Computer
SIC-S22 Mouse cable for PS/2 port (supplied)
to mouse port
Rear
VIDEO IN
AUDIO IN
S VIDEO
VIDEO
MONO
L
R
AUDIO OUT
CONTROL S IN
INPUT A
MOUSE
AUDIO
INPUT B
IN/OUT
Set this switch to IN.
Stereo audio connecting cable (not supplied)
to audio out
SMF-401 HD D-sub 15-pin cable (supplied)
to monitor out

When connecting with a Macintosh computer

For details on the DIP switch setting of the adapter, see page 43 (EN).

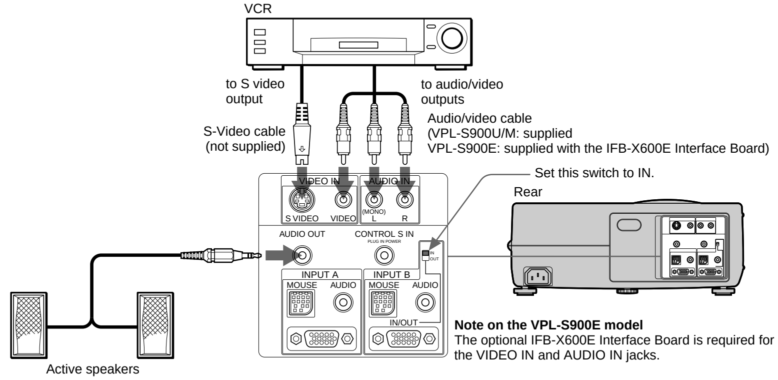

Computer
to INPUT A or INPUT B
Rear
SIC-S20 Mouse cable (supplied)
to mouse port
VIDEO IN
AUDIO IN
S VIDEO
VIDEO
MONO
L
R
AUDIO OUT
CONTROL S IN
INPUT A
MOUSE
AUDIO
INPUT B
IN/OUT
Set this switch to IN.
Stereo audio connecting cable (not supplied)
to audio out
SMF-401 HD D-sub 15-pin cable (supplied)
to monitor out
Signal adapter (supplied)

Connecting with a VCR, 15k RGB/Component Equipment

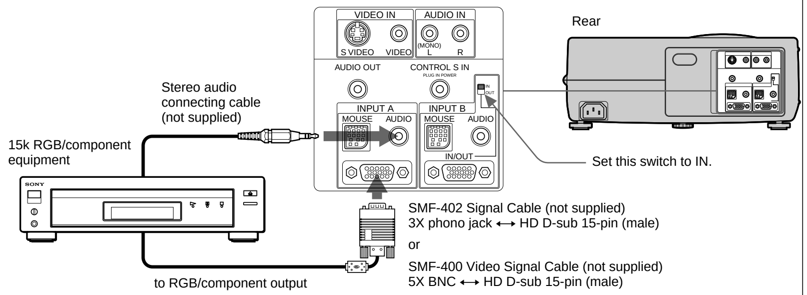
This section describes how to connect the projector with a VCR, external active speakers and 15k RGB/component equipment.
For details on how to connect a computer, see page 18 (EN).
Also refer to the instruction manuals of equipment to be connected.

When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.


VCR
to S video output
to audio/video outputs
S-Video cable (not supplied)
Audio/video cable
(VPL-S900U/M: supplied
VPL-S900E: supplied with the IFB-X600E Interface Board)
Set this switch to IN.
Rear
VIDEO IN
AUDIO IN
S VIDEO
VIDEO
(MONO)
L
R
AUDIO OUT
CONTROL S IN
PLUG IN POWER
IN
OUT
INPUT A
INPUT B
MOUSE
AUDIO
IN/OUT
Active speakers

Note on the VPL-S900E model
The optional IFB-X600E Interface Board is required for the VIDEO IN and AUDIO IN jacks.


VIDEO IN
AUDIO IN
S VIDEO
VIDEO
(MONO)
L
R
Rear
AUDIO OUT
CONTROL S IN
PLUG IN POWER
IN
OUT
INPUT A
INPUT B
MOUSE
AUDIO
IN/OUT
Stereo audio connecting cable (not supplied)
15k RGB/component equipment
SONY
Set this switch to IN.
SMF-402 Signal Cable (not supplied)
3X phono jack ←→ HD D-sub 15-pin (male)
or
SMF-400 Video Signal Cable (not supplied)
5X BNC ←→ HD D-sub 15-pin (male)
to RGB/component output

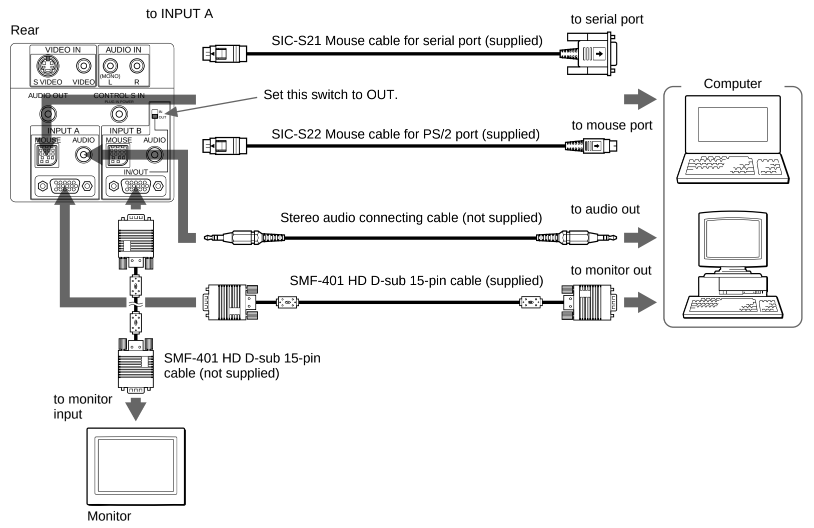
Notes
- Select the RGB or component signal with INPUT-A or INPUT-B in the SET SETTING menu.
- Use the composite sync signal when you input the external sync signal from 15k RGB/component equipment.
- When connecting to INPUT B, make sure that the RGB IN/OUT select switch is set to IN.

Using the RGB IN/OUT connector on INPUT B as a monitor output connector

This section describes connections when using the RGB IN/OUT connector on INPUT B as a monitor output connector.

When making connections, be sure to:

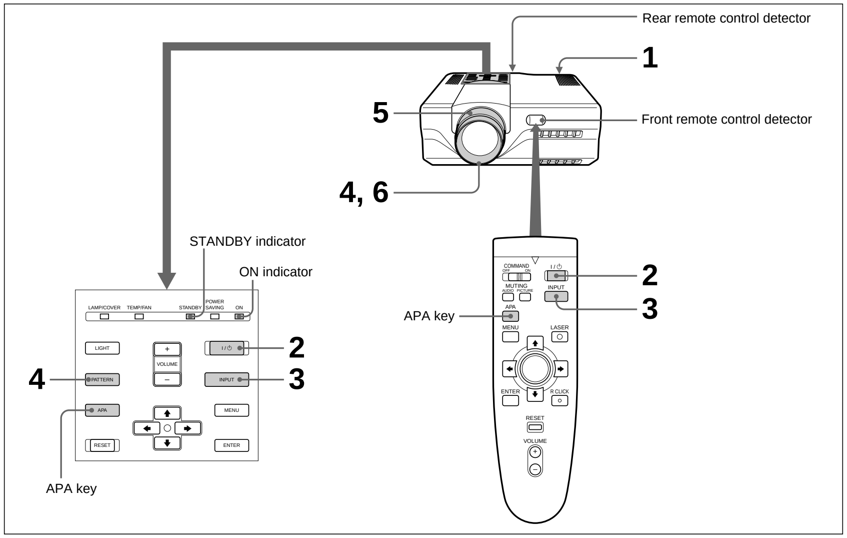
- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.
- Make sure that the RGB IN/OUT select switch is set to OUT.


Rear
to INPUT A
to serial port
SIC-S21 Mouse cable for serial port (supplied)
VIDEO IN
AUDIO IN
S VIDEO
VIDEO
(MONO)
L
R
AUDIO OUT
CONTROL S IN
INPUT A
INPUT B
MOUSE
AUDIO
IN/OUT
Set this switch to OUT.
Computer
to mouse port
SIC-S22 Mouse cable for PS/2 port (supplied)
Stereo audio connecting cable (not supplied)
to audio out
SMF-401 HD D-sub 15-pin cable (supplied)
to monitor out
SMF-401 HD D-sub 15-pin cable (not supplied)
to monitor input
Monitor

Note

When the RGB IN/OUT select switch is set to OUT, the MOUSE connector and AUDIO jack on INPUT B do not function.

Projecting


Rear remote control detector
1
5
Front remote control detector
4, 6
STANDBY indicator
ON indicator
LAMP/COVER
TEMP/FAN
STANDBY
POWER SAVING
ON
LIGHT
VOLUME
I / ⏻
2
4
PATTERN
INPUT
3
APA
MENU
RESET
ENTER
APA key
APA key
COMMAND
OFF ON
I / ⏻
2
MUTING
AUDIO PICTURE
INPUT
3
APA
MENU
LASER
ENTER
R CLICK
RESET
VOLUME

1 After all equipment is connected completely, plug the AC power cord into the wall outlet.

The STANDBY indicator lights in red and the projector goes into the standby mode.

2 Press the I / ⏻ key on the Remote Commander or on the control panel.

The ON indicator lights in green.

3 Turn on equipment connected to the projector. Press the INPUT key on the Remote Commander or on the control panel to select the input source.

INPUT A: Selects audio and video signals input from the INPUT A connector.
INPUT B: Selects audio and video signals input from the INPUT B connector.
VIDEO: Selects audio and video signals input from the AUDIO IN/ VIDEO (VIDEO IN) jacks.
S VIDEO: Selects audio and video signals input from the AUDIO IN/ S VIDEO (VIDEO IN) jacks.

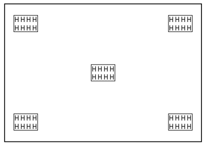
Note

The AUDIO IN jacks are used as audio outputs of both VIDEO and S VIDEO.

Note on the VPL-S900E model

The optional IFB-X600E Interface Board is required for selecting VIDEO.

4 Press the PATTERN key on the control panel to display the H pattern, and turn the focus ring to adjust the focus.



Press the PATTERN key again to clear the pattern.

5 Turn the zoom ring to adjust the size of the picture.

6 Turn the focus ring again to adjust the focus.

Note

Do not look into the lens when the projector lamp is on.

To	Press
Adjust the volume	the VOLUME +/– keys on the control panel or on the Remoter Commander.
Cut off the sound	the AUDIO MUTING key on the Remote Commander. To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key on the Remote Commander. To restore the picture, press the PICTURE MUTING key again.

To get the clearest picture

You can get the suitable picture when a signal from the computer is input. Press the APA key on the Remote Commander or on the control panel. The picture is automatically adjusted to be projected clearest.

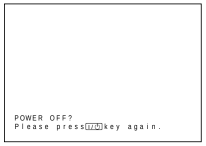
Notes

- Adjust the signal when the still picture is displayed on the screen.
- If you switch the input signal or re-connect a computer, press the APA key again to get the suitable picture.
- “ADJUSTING” appears on the screen. Press the APA key again during the adjustment to restore the original screen.
- “Complete!” appears on the screen when the picture is adjusted properly. The picture may not be adjusted properly depending on the kinds of input signals.
- Adjust DOT PHASE in the INPUT SETTING menu when you adjust the picture manually.
  For details on DOT PHASE, see page 28 (EN).

To turn off the power

1 Press the I / ⏻ key on the Remote Commander or on the control panel.

The following message appears to confirm if you want to turn off the power.



```
POWER OFF?
Please press I/⏻ key again.
```

Note

The message will disappear if you press any key except the I / ⏻ key, or if you do not press any key for five seconds.

2 Press the I / ⏻ key on the Remote Commander or on the control panel again.

The ON indicator flashes in green and the fan continues to run for about 90 seconds to reduce the internal heat. Also, the ON indicator flashes quickly for the first 30 seconds. During this time, you will not be able to turn the power back on with the I / ⏻ key.

3 Unplug the AC power cord from the wall outlet after the fan stops running and the STANDBY indicator lights in red.

When you cannot confirm the on-screen message

When you cannot confirm the on-screen message in a certain condition, you can turn off the power by holding the I / ⏻ key on the Remote Commander or on the control panel for about one second.

Note

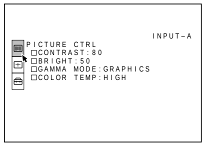
Do not unplug the AC power cord while the fan is still running; otherwise, the fan will stop although the internal heat is still high, leading to breakdown of the projector.

Using the MENU

The projector is equipped with an on-screen menu for making various adjustments and settings.

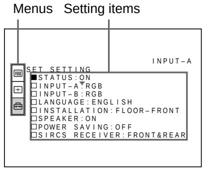
To select the language used in the menu, see page 32 (EN).

1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.



```
                                INPUT–A
PICTURE CTRL
 ☐CONTRAST:80
 ☐BRIGHT:50
 ☐GAMMA MODE:GRAPHICS
 ☐COLOR TEMP:HIGH
```

2 Use the 🡅 or 🡇 key to select a menu, then press the 🡆 or ENTER key.
The selected menu appears.



```
                                INPUT–A
SET SETTING
■STATUS:ON
☐INPUT–A:RGB
☐INPUT–B:RGB
☐LANGUAGE:ENGLISH
☐INSTALLATION:FLOOR–FRONT
☐SPEAKER:ON
☐POWER SAVING:OFF
☐SIRCS RECEIVER:FRONT&REAR
```

3 Make setting or adjustment on an item.
For details on setting individual items, see the relevant menu pages.

To clear the menu display

Press the MENU key.
The menu display disappears automatically if no key is pressed for one minute.

To reset items that have been adjusted

Press the RESET key.
"Complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.
Items which can be reset are:

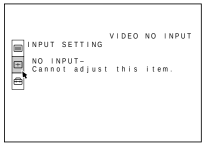
- "CONTRAST", "BRIGHT", "COLOR", "HUE", and "SHARP" in the PICTURE CTRL menu
- "DOT PHASE", "SIZE", and "SHIFT" in the INPUT SETTING menu.

About the memory of the settings

The settings are automatically stored in the projector memory.

When no signal is input

When there is no input signal, "NO INPUT-Cannot adjust this item." appears on the screen, and each item cannot be adjusted.



```
                        VIDEO NO INPUT
INPUT SETTING

 NO INPUT–
 Cannot adjust this item.
```

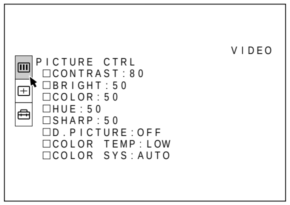
The PICTURE CTRL Menu

The PICTURE CTRL (control) menu is used for adjusting the picture.
Unadjustable items depending on the input signal are not displayed in the menu.

Note on the VPL-S900E model

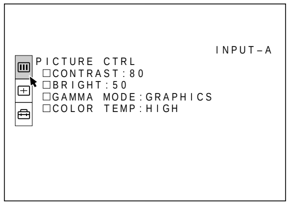
The optional IFB-X600E Interface Board is required for inputting the video signal. If you do not install the video board into the unit, the video signal cannot be selected.

When the video signal is input



VIDEO
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
☐COLOR : 50
☐HUE : 50
☐SHARP : 50
☐D.PICTURE : OFF
☐COLOR TEMP : LOW
☐COLOR SYS : AUTO

When the RGB signal is input



INPUT–A
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
☐GAMMA MODE : GRAPHICS
☐COLOR TEMP : HIGH

Operation

1. Select an item

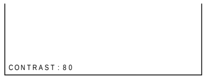
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or → key.
  To decrease the number, press the ↓ or ← key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or ↓ key to change the setting.
  Press the ENTER or ← key to restore the original screen.

CONTRAST

Adjusts the picture contrast.



CONTRAST : 80

The higher the setting, the greater the contrast.
The lower the setting, the lower the contrast.

BRIGHT

Adjusts the picture brightness.

BRIGHT : 50

The higher the setting, the brighter the picture.
The lower the setting, the darker the picture.

COLOR

Adjusts color intensity.

COLOR : 50

The higher the setting, the greater the intensity.
The lower the setting, the lower the intensity.

HUE

Adjusts skin tones.

HUE : 50

A higher the setting, the picture becomes greenish.
A lower the setting, the picture becomes purplish.

SHARP

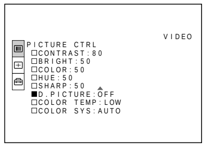
Adjusts the picture sharpness.

SHARP : 50

The higher the setting, the sharper the picture.
The lower the setting, the softer the picture.

D. (Dynamic) PICTURE

Emphasizes the black color.

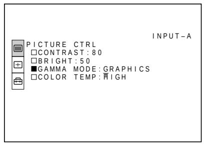


VIDEO
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
☐COLOR : 50
☐HUE : 50
☐SHARP : 50
■D.PICTURE : OFF
☐COLOR TEMP : LOW
☐COLOR SYS : AUTO

ON: Emphasizes the black color to produce a bolder "dynamic" picture.
OFF: Reproduces the dark portions of the picture accurately, in accordance with the source signal.

GAMMA MODE

Selects a gamma correction curve.

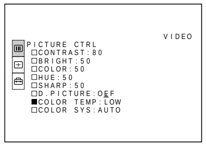


INPUT–A
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
■GAMMA MODE : GRAPHICS
☐COLOR TEMP : HIGH

GRAPHICS: Improves the reproduction of half tones. Photos can be reproduced in natural tones.
TEXT: Contrasts black and white. Suitable for images that contains lots of text.

COLOR TEMP

Adjusts the color temperature.

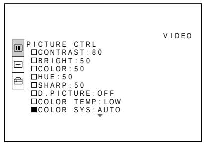


VIDEO
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
☐COLOR : 50
☐HUE : 50
☐SHARP : 50
☐D.PICTURE : OFF
■COLOR TEMP : LOW
☐COLOR SYS : AUTO

HIGH: Makes the white color bluish.
LOW: Makes the white color reddish.

COLOR SYS (System)

Selects the color system of the input signal.



VIDEO
PICTURE CTRL
☐CONTRAST : 80
☐BRIGHT : 50
☐COLOR : 50
☐HUE : 50
☐SHARP : 50
☐D.PICTURE : OFF
☐COLOR TEMP : LOW
■COLOR SYS : AUTO

Normally, set to AUTO.
If the picture is distorted or colorless, select the color system according to the input signal.

Input signals and adjustable/setting items

Item	Input signal			
	Video or S video (Y/C)	Component	RGB	B&W
CONTRAST	●	●	●	●
BRIGHT	●	●	●	●
COLOR	●	●	–	–
HUE	● (NTSC3.58/ 4.43 only)	–	–	–
SHARP	●	●	–	●
D. PICTURE	●	●	–	●
GAMMA MODE	–	–	●	–
COLOR TEMP	●	●	●	●
COLOR SYS	●	–	–	●

● : Adjustable/can be set
– : Not adjustable/can not be set

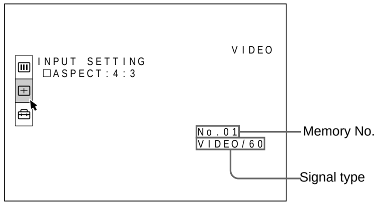
The INPUT SETTING Menu

The INPUT SETTING menu is used to adjust the input signal.
Unadjustable items depending on the input signal are not displayed in the menu.

Note on the VPL-S900E model

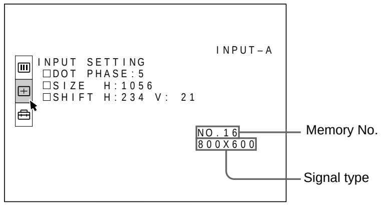
The optional IFB-X600E Interface Board is required for inputting the video signal. If you do not install the video board into the unit, the video signal cannot be selected.

When the video signal is input



VIDEO
INPUT SETTING
☐ASPECT:4:3
No.01
VIDEO/60

When the RGB signal is input



INPUT–A
INPUT SETTING
☐DOT PHASE:5
☐SIZE H:1056
☐SHIFT H:234 V: 21
NO.16
800X600

Operation

1. Select an item

Use the ⬆ or ⬇ key to select the item, then press the ➡ or ENTER key.

2. Adjust an item

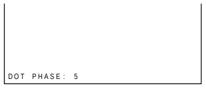
- When changing the adjustment level:
  To increase the number, press the ⬆ or ➡ key.
  To decrease the number, press the ⬇ or ⬅ key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ⬆ or ⬇ key to change the setting.
  Press the ENTER or ⬅ key to restore the original screen.

Note

When the HDTV signal is input, the items in the INPUT SETTING menu cannot be adjusted.

DOT PHASE

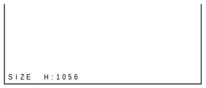
Adjusts the dot phase of the LCD panel and the signal input from the INPUT A/B connectors. Adjust the picture further for finer picture after the picture is adjusted with pressing the APA key.
Adjust the picture to where it looks clearest.



DOT PHASE: 5

SIZE

Adjusts the horizontal size of picture input from the INPUT A/B connectors.

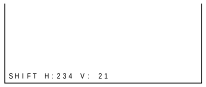


SIZE H:1056

The higher the setting, the larger the horizontal size of the picture.
The lower the setting, the smaller the horizontal size of the picture. Adjust the setting according to the dots of the input signal. For details on the suitable value for the preset signals, see page 30 (EN).

SHIFT

Adjusts the position of the picture input from the INPUT A/B connectors.

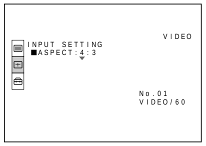


SHIFT H:234 V: 21

H adjusts the horizontal position of the picture.
V adjusts the vertical position of the picture.
As the setting for H increases, the picture moves to the right, and as the setting decreases, the picture moves to the left.
As the setting for V increases, the picture moves up, and as the setting decreases, the picture moves down.
Use the ⬅ or the ➡ key to adjust the horizontal position and the ⬆ and ⬇ key for the vertical position.

ASPECT

Sets the aspect ratio of the picture.
When inputting 16:9 (squeezed) signal from equipment such as a DVD player, set to 16:9.

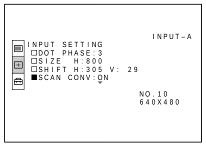


VIDEO
INPUT SETTING
■ASPECT:4:3
No.01
VIDEO/60

4:3: When the picture with ratio 4:3 is input.
16:9: When the picture with ratio 16:9 (squeezed) is input.

SCAN CONV (Scan converter)

Converts the signal to display the picture according to the screen size.



INPUT–A
INPUT SETTING
☐DOT PHASE:3
☐SIZE H:800
☐SHIFT H:305 V: 29
■SCAN CONV:ON
NO.10
640X480

ON: Displays the picture according to the screen size. The picture will lose some clarity.
OFF: Displays the picture while matching one pixel of input picture element to that of the LCD. The picture will be clear but the picture size will be smaller.

Note

When the SVGA, XGA or SXGA signal is input, this item will not be displayed.

Input signals and adjustable/setting items

Item	Input signal			
	Video or S video (Y/C)	15k RGB Component	RGB	B&W
DOT PHASE	–	–	●	–
SIZE	–	–	●	–
SHIFT	–	–	●	–
ASPECT	●	●	–	●
SCAN CONV	–	–	●	–

● : Adjustable/can be set
– : Not adjustable/can not be set

About the preset memory No.

This projector has 38 kinds of preset data for input signals for each INPUT A/B (the preset memory). The memory number of the current input signal and the signal type are displayed when the preset signal is input. This projector automatically detects the signal type. When the signal is registered to the preset memory, a suitable picture is displayed on the screen according to the signal type. You can adjust the picture through the INPUT SETTING menu.
This projector also has 20 kinds of user memories for each INPUT A/B. When an unpreset signal is input for the first time, memory number is displayed as 00. If the input signal is adjusted in the INPUT SETTING menu, the setting via INPUT A is stored under the memory number 51 to 70, and the setting via INPUT B is stored under 71 to 90. When more than 20 user memories are registered for each INPUT A/B, the newest memory is automatically stored over the oldest one.

Preset signals

Memory No.	Preset signal		fH (kHz)	fV (Hz)	Sync	SIZE
1	Video 60 Hz		15.734	59.940	H-neg V-neg	
2	Video 50 Hz		15.625	50.000	H-neg V-neg	
3	15k RGB/Component 60 Hz		15.734	59.940	H-neg V-neg	
4	15k RGB/Component 50 Hz		15.625	50.000	H-neg V-neg	
6	640 × 350	VGA mode 1	31.469	70.086	H-pos V-neg	800
7		VGA VESA[a] 85 Hz	37.861	85.080	H-pos V-neg	832
8	640 × 400	PC-9801[b] Normal	24.823	56.416	H-neg V-neg	848
9		VGA mode 2	31.469	70.086	H-neg V-pos	800
10		VGA VESA 85 Hz	37.861	85.080	H-neg V-pos	832
11	640 × 480	VGA mode 3	31.469	59.940	H-neg V-neg	800
12		Macintosh 13”	35.000	66.667	H-neg V-neg	864
13		VGA VESA 72 Hz	37.861	72.809	H-neg V-neg	832
14		VGA VESA 75 Hz	37.500	75.000	H-neg V-neg	840
15		VGA VESA 85 Hz	43.269	85.008	H-neg V-neg	832
16	800 × 600	SVGA VESA 56 Hz	35.156	56.250	H-pos V-pos	1024
17		SVGA VESA 60 Hz	37.879	60.317	H-pos V-pos	1056
18		SVGA VESA 72 Hz	48.077	72.188	H-pos V-pos	1040
19		SVGA VESA 75 Hz	46.875	75.000	H-pos V-pos	1056
20		SVGA VESA 85 Hz	53.674	85.061	H-pos V-pos	1048
21	832 × 624	Macintosh 16”	49.724	74.550	H-neg V-neg	1152
22	1024 × 768	XGA VESA 43 Hz	35.522	43.479	H-pos V-pos	1264
23		XGA VESA 60 Hz	48.363	60.004	H-neg V-neg	1344
24		XGA VESA 70 Hz	56.476	70.069	H-neg V-neg	1328
25		XGA VESA 75 Hz	60.023	75.029	H-pos V-pos	1312
26		XGA VESA 85 Hz	68.677	84.997	H-pos V-pos	1376
27	1152 × 864	SXGA VESA 70 Hz	63.995	70.016	H-pos V-pos	1472
28		SXGA VESA 75 Hz	67.500	75.000	H-pos V-pos	1600
29		SXGA VESA 85 Hz	77.487	85.057	H-pos V-pos	1568
30	1152 × 900	Sunmicro LO	61.795	65.960	H-neg V-neg	1504
31		Sunmicro HI	71.713	76.047	H-neg V-neg	1472
32	1280 × 960	SXGA VESA 60 Hz	60.000	60.000	H-pos V-pos	1800
33		SXGA VESA 75 Hz	75.000	75.000	H-pos V-pos	1728
34	1280 × 1024	SXGA VESA 43 Hz	46.433	43.436	H-pos V-pos	1696
35		SGI-5	53.316	50.062	Sync on G	1680
36		SXGA VESA 60 Hz	63.974	60.013	H-pos V-pos	1696
37		SXGA VESA 75 Hz	79.976	75.025	H-pos V-pos	1688
38		SXGA VESA 85 Hz	91.146	85.024	H-pos V-pos	1012

a) VESA is a registered trademark of Video Electronics Standard Association.
b) PC-98 is a registered trademark of NEC Corporation.

Since the data is recalled from the preset memory about the following signals, you can use these preset data by adjusting SIZE. Make fine adjustment by adjusting SHIFT.

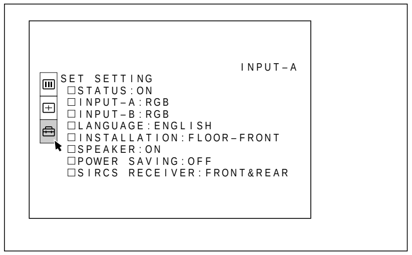
Signal	Memory No.	SIZE
Super Mac-2	23	1312
SGI-1	23	1320
Macintosh 19”	25	1328
Macintosh 21”	28	1456
Sony News	36	1708
PC-9821 1280 × 1024	36	1600
WS Sunmicro	37	1664

Note

When the aspect ratio of input signal is other than 4:3, a part of the screen is displayed in black.

The SET SETTING Menu

The SET SETTING menu is used for changing the settings of the projector.



```
                              INPUT-A
SET SETTING
 □STATUS:ON
 □INPUT-A:RGB
 □INPUT-B:RGB
 □LANGUAGE:ENGLISH
 □INSTALLATION:FLOOR-FRONT
 □SPEAKER:ON
 □POWER SAVING:OFF
 □SIRCS RECEIVER:FRONT&REAR
```

Operation

1. Select an item

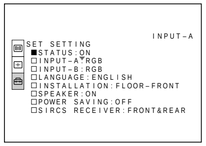
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Change the setting

Press the ↑ or ↓ key to change the setting.
To restore the original screen, press the ENTER or ← key.

STATUS (on-screen display)

Sets up the on-screen display.



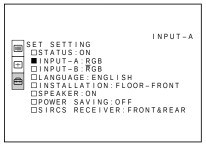
```
                              INPUT-A
SET SETTING
 ■STATUS:ON
 □INPUT-A:RGB
 □INPUT-B:RGB
 □LANGUAGE:ENGLISH
 □INSTALLATION:FLOOR-FRONT
 □SPEAKER:ON
 □POWER SAVING:OFF
 □SIRCS RECEIVER:FRONT&REAR
```

ON: Shows all of the on-screen displays.
OFF: Turns off the on-screen displays except for the menus, a message when turning off the power, and warning messages.

For details on the warning messages, see page 39 (EN).

INPUT-A

Selects the RGB or component signal input from the INPUT A connector.



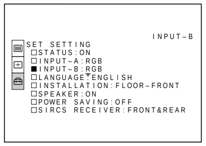
```
                              INPUT-A
SET SETTING
 □STATUS:ON
 ■INPUT-A:RGB
 □INPUT-B:RGB
 □LANGUAGE:ENGLISH
 □INSTALLATION:FLOOR-FRONT
 □SPEAKER:ON
 □POWER SAVING:OFF
 □SIRCS RECEIVER:FRONT&REAR
```

Note

If the setting is not correct, “Please check INPUT-A in SET SETTING.” appears on the screen and the color of the picture becomes strange or the picture is not displayed.

INPUT-B

Selects the RGB or component signal input from the INPUT B connector.



```
                              INPUT-B
SET SETTING
 □STATUS:ON
 □INPUT-A:RGB
 ■INPUT-B:RGB
 □LANGUAGE:ENGLISH
 □INSTALLATION:FLOOR-FRONT
 □SPEAKER:ON
 □POWER SAVING:OFF
 □SIRCS RECEIVER:FRONT&REAR
```

Note

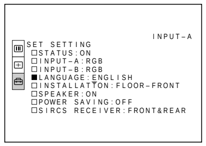
If the setting is not correct, “Please check INPUT-B in SET SETTING.” appears on the screen and the color of the picture becomes strange or the picture is not displayed.

(Continued)

The SET SETTING Menu

LANGUAGE

Selects the language used in the menu and on-screen displays.

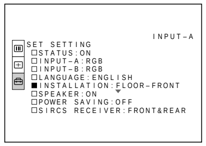


```
                                INPUT–A
SET SETTING
 ☐STATUS:ON
 ☐INPUT–A:RGB
 ☐INPUT–B:RGB
 ■LANGUAGE:ENGLISH
 ☐INSTALLATION:FLOOR–FRONT
 ☐SPEAKER:ON
 ☐POWER SAVING:OFF
 ☐SIRCS RECEIVER:FRONT&REAR
```

Available languages are: English, French, German, Italian, Spanish, Japanese and Chinese.

INSTALLATION

Sets to reverse the picture horizontally or vertically.



```
                                INPUT–A
SET SETTING
 ☐STATUS:ON
 ☐INPUT–A:RGB
 ☐INPUT–B:RGB
 ☐LANGUAGE:ENGLISH
 ■INSTALLATION:FLOOR–FRONT
 ☐SPEAKER:ON
 ☐POWER SAVING:OFF
 ☐SIRCS RECEIVER:FRONT&REAR
```

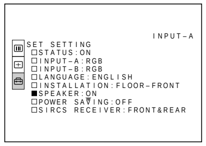
FLOOR-FRONT: The picture is not reversed.
CEILING-FRONT: The picture is reversed horizontally and vertically.
FLOOR-REAR: The picture is reversed horizontally.
CEILING-REAR: The picture is reversed vertically.

Note

In case of using a mirror, be careful of installation since the picture may be reversed.

SPEAKER

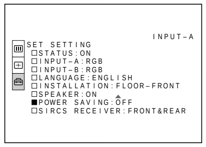
Set to OFF to cut off the sound of the internal speakers. When set to OFF, "SPEAKER OFF" appears on the screen when you turn on the power.



```
                                INPUT–A
SET SETTING
 ☐STATUS:ON
 ☐INPUT–A:RGB
 ☐INPUT–B:RGB
 ☐LANGUAGE:ENGLISH
 ☐INSTALLATION:FLOOR–FRONT
 ■SPEAKER:ON
 ☐POWER SAVING:OFF
 ☐SIRCS RECEIVER:FRONT&REAR
```

POWER SAVING

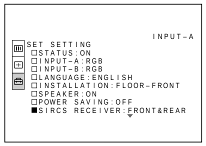
When set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes.



```
                                INPUT–A
SET SETTING
 ☐STATUS:ON
 ☐INPUT–A:RGB
 ☐INPUT–B:RGB
 ☐LANGUAGE:ENGLISH
 ☐INSTALLATION:FLOOR–FRONT
 ☐SPEAKER:ON
 ■POWER SAVING:OFF
 ☐SIRCS RECEIVER:FRONT&REAR
```

SIRCS RECEIVER

Selects the remote control detectors on the front and rear of the projector.

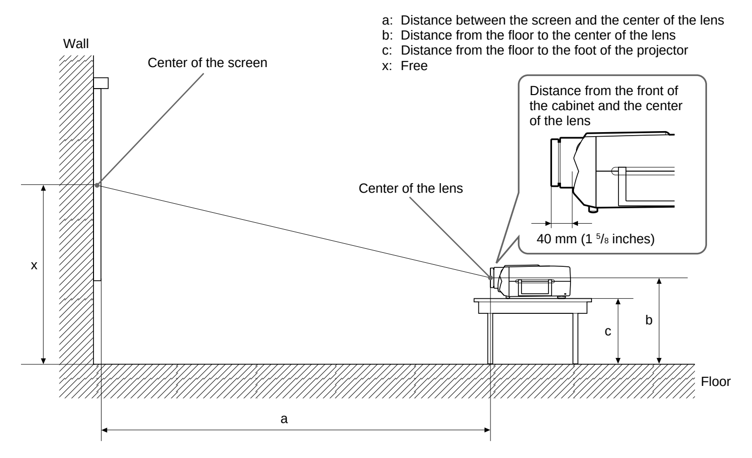


```
                                INPUT–A
SET SETTING
 ☐STATUS:ON
 ☐INPUT–A:RGB
 ☐INPUT–B:RGB
 ☐LANGUAGE:ENGLISH
 ☐INSTALLATION:FLOOR–FRONT
 ☐SPEAKER:ON
 ☐POWER SAVING:OFF
 ■SIRCS RECEIVER:FRONT&REAR
```

FRONT & REAR: Activates both the front and rear detectors.
FRONT: Activates the front detector only.
REAR: Activates the rear detector only.

Installation Examples

Floor Installation


a: Distance between the screen and the center of the lens
b: Distance from the floor to the center of the lens
c: Distance from the floor to the foot of the projector
x: Free
Wall
Center of the screen
Distance from the front of the cabinet and the center of the lens
Center of the lens
40 mm (1 5/8 inches)
x
c
b
Floor
a

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1570 (61 7/8)	2400 (94 1/2)	3240 (127 5/8)	4070 (160 3/8)	4900 (193)	6150 (242 1/4)	7410 (291 7/8)	8240 (324 1/2)	10320 (406 3/8)	12410 (488 3/4)
	Maximum	2000 (78 3/4)	3040 (119 3/4)	4090 (161 1/8)	5130 (202)	6180 (243 3/8)	7750 (305 1/4)	9310 (366 5/8)	10360 (408)	12970 (510 3/4)	15580 (613 1/2)
b		x–292 (11 5/8)	x–439 (17 3/8)	x–585 (23 1/8)	x–731 (28 7/8)	x–877 (34 5/8)	x–1097 (43 1/4)	x–1316 (51 7/8)	x–1462 (57 5/8)	x–1828 (72)	x–2194 (86 3/8)
c		x–376 (14 7/8)	x–522 (20 5/8)	x–668 (26 3/8)	x–815 (32 1/8)	x–961 (37 7/8)	x–1180 (46 1/2)	x–1399 (55 1/8)	x–1546 (60 7/8)	x–1911 (75 3/8)	x–2277 (89 3/4)

To calculate the installation measurement (unit: mm)

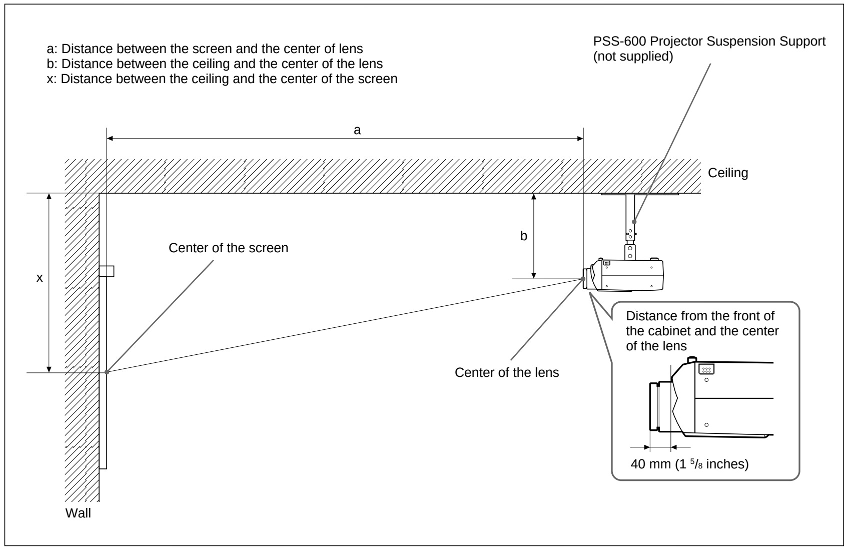
SS: screen size diagonal (inches)
a (minimum) = $\{(SS \times 52.83/1.2992) - 95.03\} \times 1.025$
a (maximum) = $\{(SS \times 69.64/1.2992) - 96.17\} \times 0.975$
b = $x - (SS/1.2992 \times 9.5)$
c = $x - (SS/1.2992 \times 9.5 + 83.3)$

Installation Examples

Ceiling Installation

When installing the projector on the ceiling, use the PSS-600 Projector Suspension Support.

For ceiling installation, consult with qualified Sony personnel.


a: Distance between the screen and the center of lens
b: Distance between the ceiling and the center of the lens
x: Distance between the ceiling and the center of the screen
PSS-600 Projector Suspension Support (not supplied)
a
Ceiling
b
x
Center of the screen
Distance from the front of the cabinet and the center of the lens
Center of the lens
40 mm (1 5/8 inches)
Wall

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	3240 (127 5/8)	4070 (160 3/8)	4900 (193)	6150 (242 1/4)	7410 (291 7/8)	8240 (324 1/2)	10320 (406 3/8)	12410 (488 3/4)
	Maximum	4090 (161 1/8)	5130 (202)	6180 (243 3/8)	7750 (305 1/4)	9310 (366 5/8)	10360 (408)	12970 (510 3/4)	15580 (613 1/2)
x		b+585 (23 1/8)	b+731 (28 7/8)	b+877 (34 5/8)	b+1097 (43 1/4)	b+1316 (51 7/8)	b+1462 (57 5/8)	b+1828 (72)	b+2194 (86 1/2)
b		226/251/276/326/351/376 mm (9/10/10 7/8/12 7/8/13 7/8/14 7/8 inches) adjustable when using PSS-600							

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)

$a\ (\text{minimum}) = \{(SS \times 52.83/1.2992) - 95.03\} \times 1.025$

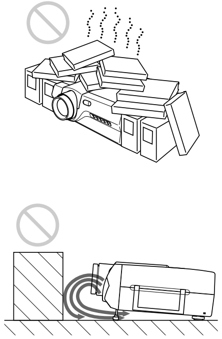
$a\ (\text{maximum}) = \{(SS \times 69.64/1.2992) - 96.17\} \times 0.975$

$x = b + SS/1.2992 \times 9.5$

Unsuitable Installation

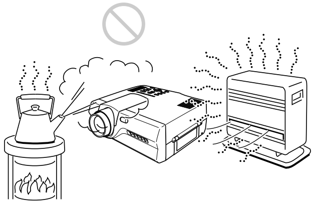
Do not install the projector in the following situations. These installations may cause mulfunction or damage to the projector.

Poorly ventilated



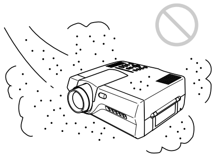
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. When the internal heat builds up due to the block-up, the temperature sensor will function with the message “High Temperature! Power off in 1 min.” The power will be turned off automatically after one minute.
- Leave space of more than 30 cm (11 7/8 inches) around the front ventilation holes.
- Be careful that the bottom ventilation holes may inhale tininess such as a piece of paper.
- If you put something in front of the front ventilation holes, the exhaust may be inhaled into the projector through the ventilation holes at the bottom, causing the internal temperature to rise, which activates the protection circuit. Install the projector so that the exhaust is not blocked.

Highly heated and humid



- Avoid installing the unit in a location where the temperature or humidity is very high, or temperature is very low.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

Very dusty



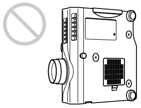
Avoid installing the unit in a location where there is a lot of dust; otherwise, the air filter will be obstructed. The dust blocking the air through the filter may cause raising the internal heat of the projector. Clean it up periodically.

http://getMANUAL.com

Notes on Installation

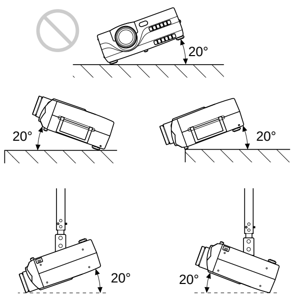
Carry out the followings.

No toppling of the unit



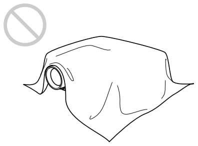
Avoid using as the unit topples over on its side. It may cause malfunction.

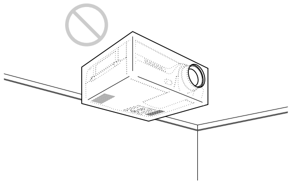
Use to be level



Avoid using as the unit titles more than 20 degrees. Do not install the unit other than on the floor or ceiling. These installation may cause malfunction.

No blocking the ventilation holes





Avoid using something to cover over the front ventilation holes; otherwise, the internal heat may build up.

Use the supplied front cover only when the power is turned off. Do not turn on the projector with the front cover on. It may cause malfunction.

Maintenance

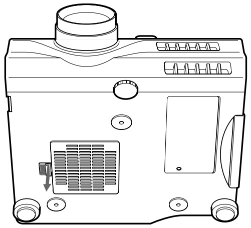
Note on the Time to Replace the Lamp

When it is time to replace the lamp, replace the lamp promptly with a new LMP-600 Projector Lamp.
For details on replacement, refer to the instruction manual supplied with the LMP-600 Projector Lamp.

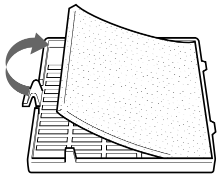
Cleaning the Air Filter

The air filter should be cleaned every 300 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.
To clean the air filter, follow the steps below:

1. Turn off the power and unplug the power cord.
2. Remove the air filter cover on the bottom of the projector.



3. Remove the air filter.



4. Remove the dust from the filter with a vacuum cleaner.
5. Attach the air filter and replace the cover.

Notes

- If the air filter is excessively dirty, wash it with a mild detergent solution and dry it in a shaded place. If the dust cannot be removed, replace the air filter with the supplied new one.
- Be sure to attach the air filter cover firmly; the power will not be turned on if it is not closed securely.

Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The power has been turned off and on with the I / ⏻ key at a short interval.	Wait for about one minute before turning on the power *(see page 22 (EN)).*
	The lamp cover is detached.	Close the lamp cover securely.
	The air filter cover is detached.	Close the air filter cover securely *(see page 37 (EN)).*
No picture and no sound.	Cable is disconnected.	Check that the proper connections have been made *(see pages 18 (EN) to 21 (EN)).*
	Wrong connection.	Check that the proper connections have been made *(see pages 18 (EN) to 21 (EN)).*
	Input selection is incorrect.	Select the input source correctly using the INPUT key *(see page 22 (EN)).*
No picture or no sound.	Either the picture or the sound is cut off.	Press the MUTING keys to release the muting function *(see page 23 (EN)).*
No picture.	The computer signal is not set to output to external monitor.	Set the computer signal to output to external monitor *(see page 18 (EN)).*
	The computer signal is set to output to both the LCD of the computer and external monitor.	Set the computer signal to output only to external monitor *(see page 18 (EN)).*
The picture is noisy.	Noise may appear on the background depending on the combination of the numbers of dot input from the connector and numbers of pixel on the LCD panel.	Change the desktop pattern on the connected computer.
When inputting sound through INPUT A/B connector, sound comes through one channel only.	Monaural sound is being input through the INPUT A/B connector.	Input stereo sound.
The picture from INPUT A/B connector is colored strange.	Setting for INPUT-A/INPUT-B in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A or INPUT-B in the SET SETTING menu according to the input signal *(see page 31 (EN)).*
"Please check INPUT-A in SET SETTING." appears in spite of inputting the correct signal from INPUT A.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal *(see page 31 (EN)).*
"Please check INPUT-B in SET SETTING." appears in spite of inputting the correct signal from INPUT B.	Setting for INPUT-B in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-B in the SET SETTING menu according to the input signal *(see page 31 (EN)).*
No display appears though the correct signal is input from INPUT B.	The RGB IN/OUT select switch is set to OUT.	Set the switch to IN *(see page 14 (EN)).*
"NO INPUT" appears when 15k RGB or component signal is input.	The sync signal is incorrect.	Input the correct sync signal (composite sync or sync on G signal (sync on Y for component signal)).
On-screen displays do not appear.	STATUS in the SET SETTING menu has been set to OFF.	Set STATUS in the SET SETTING menu to ON *(see page 31 (EN)).*
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture *(see pages 26 (EN) and 27 (EN)).*
	Projector is set to wrong color system.	Set COLOR SYS in the PICTURE CTRL menu to match the color system being input *(see page 27 (EN)).*
The picture is too dark.	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness in the PICTURE CTRL menu properly *(see page 26 (EN)).*
The picture is not clear.	Picture is out of focus.	Adjust the focus *(see page 23 (EN)).*
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on *(see page 35 (EN)).*

Symptom	Cause	Remedy
The LAMP/COVER indicator flashes.	The lamp cover or the air filter cover is detached.	Attach the cover securely *(see page 37 (EN)).*
The LAMP/COVER indicator lights up.	The lamp has reached the end of its life.	Replace the lamp *(see page 37 (EN)).*
The TEMP/FAN indicator flashes.	The fan is broken.	Consult with qualified Sony personnel.
The TEMP/FAN indicator lights up.	The internal temperature is unusually high.	Check to see if nothing is blocking the ventilation holes.
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries *(see page 16 (EN)).*
	The COMMANDER ON/OFF switch is set to the OFF position.	Set the switch to ON position *(see page 16 (EN)).*
	You are using the Remote Commander as a wireless Remote Commander, and it is connected to the projector.	Disconnect the cable.
	The front/rear remote commander detector is near the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu *(see page 32 (EN)).*
The laser pointer is not emitted.	The batteries are dead.	Replace with new batteries *(see page 16 (EN)).*
	The Remote Commander is used as wired without batteries.	Install batteries *(see page 16 (EN)).*
The joystick, R CLICK, or L CLICK key does not function.	The mouse port on the computer does not recognize the mouse cable.	Restart the computer.

Warning messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
High Temperature! Power off in 1 min.	Internal temperature is too high.	Turn off the power. Check to see if nothing is blocking the ventilation holes.
Frequency is out of range!	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal that is within the range of the frequency.
	The resolution setting of the output signal of a computer is too high.	Set the setting of output to the SVGA.
Please check INPUT-A in SET SETTING.	You have input RGB signal from the computer when INPUT-A in the SET SETTING menu is set to COMPONENT.	Set INPUT-A correctly.
Please check INPUT-B in SET SETTING.	You have input RGB signal from the computer when INPUT-B in the SET SETTING menu is set to COMPONENT.	Set INPUT-B correctly.

Caution messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal	Check connections.
Not applicable!	You have pressed the wrong key.	Press the appropriate key.

Specifications

Optical characteristics

Projection system	3 LCD panels, 1 lens, projection system
LCD panel	1.3-inch TFT LCD panel, 1,440,000 pixels (480,000 pixels × 3)
Lens	1.3 times zoom lens f 54 to 70 mm/F 2.0 to 2.4
Lamp	120 W UHP
Projection picture size	Range: 40 to 300 inches (diagonal measure)
Light output	ANSI lumen[1)] 900 lm
Throwing distance	(800 × 600 dots display) 40-inch: 1570 to 2000 mm (61 $^{7}/_{8}$ to 78 $^{3}/_{4}$ inches) 80-inch: 3240 to 4090 mm (127 $^{5}/_{8}$ to 161 $^{1}/_{8}$ inches) 100-inch: 4070 to 5130 mm (160 $^{3}/_{8}$ to 202 inches) 120-inch: 4900 to 6180 mm (193 to 243 $^{3}/_{8}$ inches) 200-inch: 8240 to 10360 mm (324 $^{1}/_{2}$ to 408 inches) 300-inch: 12410 to 15580 mm (488 $^{3}/_{4}$ to 613 $^{1}/_{2}$ inches)

Electrical characteristics

Color system	NTSC$_{3.58}$/PAL/SECAM/NTSC$_{4.43}$/PAL-M system, switched automatically/manually
Resolution	600 horizontal TV lines (Video input) 800 × 600 dots (RGB input)
Acceptable computer signals	fH:15, 24 to 91 kHz fV:43 to 85 Hz
Speaker	Wide frequency range 3 speakers system, Woofer: 57 mm (2 $^{1}/_{4}$ inches) diameter, max. 1 W Tweeter: 28 mm (1 $^{1}/_{8}$ inches) diameter, max. 0.2 W × 2 (stereo)

Input/Output

VIDEO IN (only for VPL-S900U/M)	VIDEO: phono type Composite video: 1 Vp-p ±2 dB sync negative (75 ohms terminated) S VIDEO: Y/C mini DIN 4-pin type (male) Y (luminance): 1 Vp-p ±2 dB sync negative (75 ohms terminated) C (chrominance): burst 0.286 Vp-p ±2 dB (NTSC) (75 ohms terminated), burst 0.3 Vp-p ±2 dB (PAL) (75 ohms terminated)
AUDIO IN (only for VPL-S900U/M)	Phono type × 2 500 mVrms, impedance more than 47 kilohms
INPUT A/INPUT B	HD D-sub15-pin (female) Analog RGB/component: When using as input R/R-Y: 0.7 Vp-p ±2 dB (75 ohms terminated) G: 0.7 Vp-p ±2 dB (75 ohms terminated) G with sync/Y: 1 Vp-p ±2 dB sync negative (75 ohms terminated) B/B-Y: 0.7 Vp-p ±2 dB (75 ohms terminated) SYNC/HD: Composite sync input: 1-5 Vp-p high impedance, positive/negative Horizontal sync input: 1-5 Vp-p high impedance, positive/negative VD: Vertical sync input: 1-5 Vp-p high impedance, positive/negative When using as output (INPUT B only) (input/output switching, outputs signal input from RGB connector on INPUT A) R/R-Y: Gain unity (75 ohms terminated) G: Gain unity (75 ohms terminated) B/B-Y: Gain unity (75 ohms terminated) SYNC/HD: Composite sync output 4Vp-p (open), 1Vp-p (75 ohms input) Horizontal sync output 4Vp-p (open) 1Vp-p (75 ohms input) VD: Vertical sync output 4Vp-p (open) 1Vp-p (75 ohms input)
MOUSE (output): 13-pin (female)	*(For details, see "Pin assignment" on page 42 (EN).)*
	AUDIO: Stereo minijack 500 mVrms, impedance more than 47 kilohms
AUDIO OUT (variable out): stereo minijack	Max. 1 Vrms, when an output signal is 500 mVrms, impedance less than 5 kilohms
CONTROL S IN/PLUG IN POWER	Stereo minijack 5 Vp-p, plug in power, DC 5 V maximum output 60 mA
Safety regulations	VPL-S900U: UL1950, cUL (CSA C22.2 No.950), FCC Class A, IC Class A, DHHS VPL-S900E/S900M: EN60 950 EN60825-1, CE, C-Tick

Laser beam

Laser type	Class 2
Wavelength	645 nm
Output	1 mW

General

Dimensions	333 × 120 × 291 mm (13 $^{1}/_{4}$ × 4 $^{3}/_{4}$ × 11 $^{1}/_{2}$ inches) (w/h/d) (excluding lens, adjusters, and protruding parts) 339 × 136 × 322 mm (13 $^{3}/_{8}$ × 5 $^{3}/_{8}$ × 12 $^{3}/_{4}$ inches) (w/h/d)
Mass	Approx. 5.9 kg (13 lb)
Power requirements	AC 100 to 120 V/ 220 to 240 V, 2A/0.9A, 50/60 Hz
Power consumption	Max. 220 W (Standby mode: 2 W)
Heat dissipation	750.7 BTU
Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	35% to 85% (no condensation)
Storage temperature	–20°C to 60°C (–4°F to 140°F)
Storage humidity	10% to 90%
Supplied accessories	Remote Commander RM-PJM600 (1) Size AA (R6) batteries (2) Video Signal Cable SMF-401 (1) Signal Adapter (for Macintosh) (1) Mouse Cable SIC-S20 (for Macintosh) (2 m) (1) SIC-S21 (for Serial) (2 m) (1) SIC-S22 (for PS/2) (2 m) (1) Audio/video cable (1.5 m) (1) (except for VPL-S900E) Strap for Remote Commander (1) AC power cord (1) Lens cap (1) Front cover (1) Air filter (for replacement) (1) Operating Instructions (1) Installation Manual for Dealers (1) Quick Reference Card (1) Warranty Card (1) (only for VPL-S900U)

Design and specifications are subject to change without notice.

Optional accessories

Projector Lamp LMP-600[1)] (for replacement)
Projector Suspension Support PSS-600
Interface Board IFB-X600E (only for VPL-S900E)
Video Signal Cable
  SMF-400 (HD D-sub 15-pin (male) ←→ 5 × BNC (male))
  SMF-401 (HD D-sub 15-pin (male) ←→ HD D-sub 15-pin (male))
Signal Cable
  SMF-402 (HD D-sub 15-pin (male) ←→ 3 × phono type (male))
Mouse Cable
  SIC-S20 (for Macintosh) (2 m)
  SIC-S21 (for Serial) (2 m)
  SIC-S22 (for PS/2) (2 m)
Signal Adapter ADP-20 (Macintosh ←→ HD D-sub 15-pin)
Projection Lens
  2 times Zoom Long Focus Lens VPLL-ZM100
  Fixed Short Focus Lens VPLL-FM20
  Fixed Short Focus Lens VPLL-FM30
Carrying Case VLC-600[1)]
Screens
  50-inch Portable VPS-50C
  80-inch Portable VPS-80C
  100-inch Flat Screen VPS-100FH
  120-inch Flat Screen VPS-120FH

Some of the items may not be available in some areas. For details, please consult your nearest Sony office.

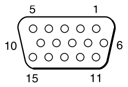
[1)] ANSI lumen is a measuring method of American National Standard IT 7.228.

[1)] LMP-600 and VLC-600 may not be available in some areas. For details, please consult your nearest Sony office.

Specifications

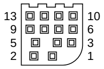
Pin assignment

RGB input (INPUT A)/RGB IN/OUT (INPUT B) connector (HD D-sub 15-pin, female)



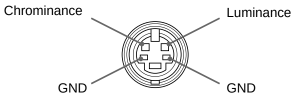
1	R/R-Y	9	N.C.
2	G/Y	10	GND
3	B/B-Y	11	GND
4	N.C.	12	N.C.
5	GND	13	HD/C.Sync
6	GND (R)	14	VD
7	GND (G)	15	N.C.
8	GND (B)		

MOUSE connector (13-pin, female)


13
9
5
2
10
6
3
1

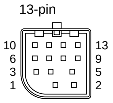
1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

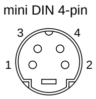
S VIDEO jack (4 pin, mini-DIN)


Chrominance
Luminance
GND
GND

Mouse cable pin assignment

SIC-S20

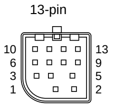

13-pin
10
6
3
1
13
9
5
2

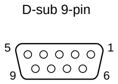

mini DIN 4-pin
3
4
1
2

1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

1	ADB
2	NC
3	+5V
4	GND

SIC-S21

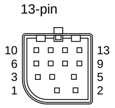

13-pin
10
6
3
1
13
9
5
2

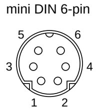

D-sub 9-pin
5
1
9
6

1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

SIC-S22

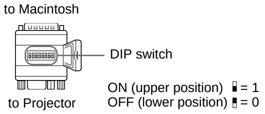

13-pin
10
6
3
1
13
9
5
2


mini DIN 6-pin
5
6
3
4
1
2

1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

1	DATA
2	NC
3	GND
4	+5V
5	CLOCK
6	NC

Switch position for signal adapter


to Macintosh
DIP switch
to Projector

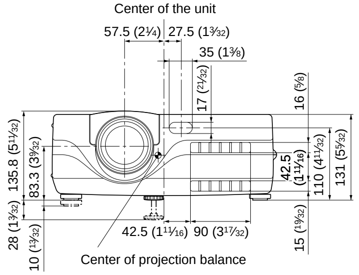
ON (upper position) ▮ = 1
OFF (lower position) ▮ = 0

Mode	fH	DIP switch 12345678
VGA/S VGA	31.5 kHz/37.8 kHz	00111001
Macintosh 13”	35.0 kHz	11001001
Macintosh 16”	49.7 kHz	01011001
Macintosh 19”	60.2 kHz	01101001
Macintosh 21”	68.7 kHz	11111001
Macintosh 1280 × 960	75.0 kHz	11001101
Macintosh 1280 × 1024	75.0 kHz	11001101

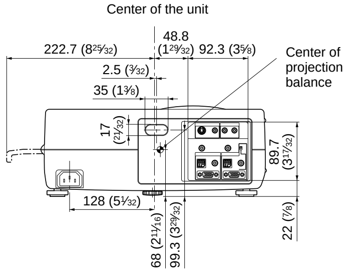
Specifications

Dimensions

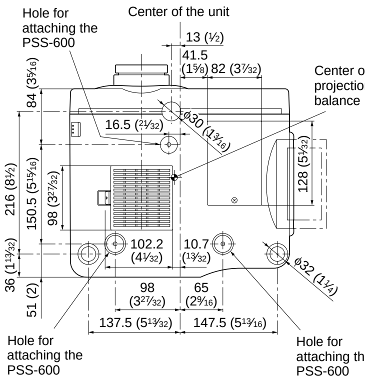
Front


Center of the unit
57.5 (2 1/4)
27.5 (1 3/32)
35 (1 3/8)
17 (21/32)
16 (5/8)
135.8 (5 11/32)
83.3 (3 9/32)
42.5 (1 11/16)
110 (4 11/32)
131 (5 5/32)
28 (1 3/32)
10 (13/32)
42.5 (1 11/16)
90 (3 17/32)
15 (19/32)
Center of projection balance

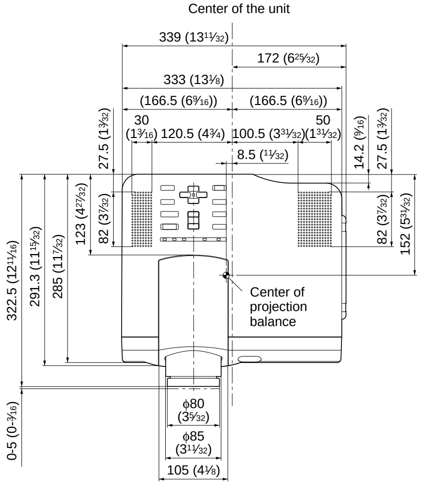
Rear


Center of the unit
222.7 (8 25/32)
48.8 (1 29/32)
92.3 (3 5/8)
Center of projection balance
2.5 (3/32)
35 (1 3/8)
17 (21/32)
89.7 (3 17/32)
128 (5 1/32)
68 (2 11/16)
99.3 (3 29/32)
22 (7/8)

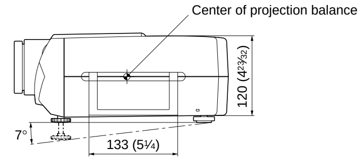
Bottom


Hole for attaching the PSS-600
Center of the unit
13 (1/2)
41.5 (1 5/8)
82 (3 7/32)
Center of projection balance
84 (3 5/16)
16.5 (21/32)
φ30 (1 3/16)
216 (8 1/2)
150.5 (5 15/16)
98 (3 27/32)
128 (5 1/32)
102.2 (4 1/32)
10.7 (13/32)
φ32 (1 1/4)
36 (1 13/32)
51 (2)
98 (3 27/32)
65 (2 9/16)
137.5 (5 13/32)
147.5 (5 13/16)
Hole for attaching the PSS-600
Hole for attaching the PSS-600

Top

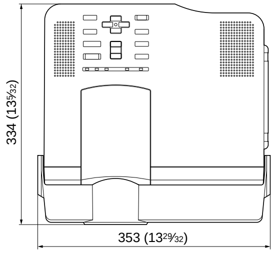

Center of the unit
339 (13 11/32)
172 (6 25/32)
333 (13 1/8)
(166.5 (6 9/16))
(166.5 (6 9/16))
30 (1 3/16)
120.5 (4 3/4)
100.5 (3 31/32)
50 (1 31/32)
8.5 (11/32)
27.5 (1 3/32)
14.2 (9/16)
27.5 (1 3/32)
123 (4 27/32)
82 (3 7/32)
82 (3 7/32)
152 (5 31/32)
322.5 (12 11/16)
291.3 (11 15/32)
285 (11 7/32)
Center of projection balance
φ80 (3 5/32)
φ85 (3 11/32)
105 (4 1/8)
0-5 (0-3/16)

Side


Center of projection balance
120 (4 23/32)
7°
133 (5 1/4)

Unit: mm (inches)

Top (with the front cover)


334 (13 5/32)
353 (13 29/32)

Unit: mm (inches)

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1-2. VPL-S900U/S900E/S900M INSTALLATION MANUAL FOR DEALERS

SONY

3-862-351-**13** (1)

LCD Data Projector

Installation Manual for Dealers	EN
Manuel d'installation destiné aux revendeurs	F
Manual de instalación para proveedores	ES

VPL-X600U/X600E/X600M
VPL-S600U/S600E/S600M
VPL-X1000U/X1000E/X1000M
VPL-S900U/S900E/S900M

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Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified Sony personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- Avoid using an extension cord with a low voltage limited since it may cause the short-circuit and physical incidents.
- To carry the projector, be sure to use the carrying handle. Do not hold other parts of the projector, especially the lens, nor catch your finger between the handle, floor, and the projector.
- Do not catch your finger between the unit and surface of the floor when moving the projector installed on the floor.
- Be careful not to catch your finger in the cooling fan.
- Do not carry the projector with the cabinet on and with its cover open.

On installation

- When the projector is mounted on the ceiling, the Sony PSS-600 Projector Suspension Support must be used for installation.
- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. Leave space of more than 30 cm (11 $^7/_8$ inches) between the wall and the projector. Be aware that room heat rises to the ceiling; check that the temperature near the installation location is not excessive.
- Install the projector on the floor or ceiling. Any other installation causes a mulfunction such as color irregularity or shortening lamp life.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust or humidity, mechanical vibration or shock.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.
- Be sure to secure the cabinet cover firmly when installing to the ceiling firmly.

Precautions

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

- After you turn off the power with the **I / ⏻** key on the control panel or on the Remote Commander, do not disconnect the unit from the wall outlet while the cooling fan is still running.
- Do not disconnect the AC power cord from the wall outlet while the fan is still running.

Caution

The projector is equipped with ventilation holes (intake) at the bottom and ventilation holes (exhaust) at the front. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Overview

This manual describes how to install the Sony LCD Data Projector VPL-X600U/E/M, VPL-S600U/E/M, VPL-X1000U/E/M and VPL-S900U/E/M, how to replace the lens, how to change the lens position for rear projection (optical axis angle: 0 degree), and installation diagrams. When you replace the lens or change the lens position, also refer to the Operating Instructions.

Replacing the Lens

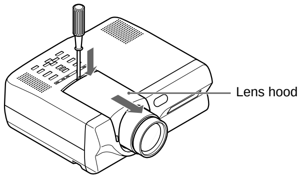
You can install the following two types of lenses in the projector.

- VPLL-ZM100 2 times Zoom long focus lens
- VPLL-FM30 Fixed short focus lens

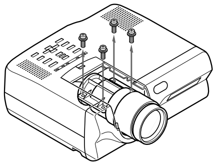
Follow the steps below to replace the lens.
For details on replacing the lens, also refer to the installation manual supplied with the lens.

1 Turn off the power and disconnect the power cable.

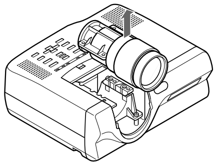
2 Remove the lens hood. To remove the lens hood, insert a screwdriver into the lens hood slit then lightly push down on the hood with the screwdriver and slide the lens hood forward.



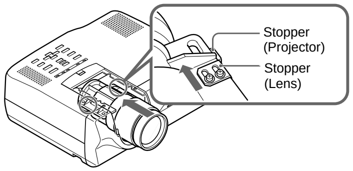
3 Remove the four screws (M4×12, with washers) locking the lens by using a Philips screwdriver.



4 Lift and remove the lens.



5 Install the lens with the lens stopper and the projector stopper met at their edges.

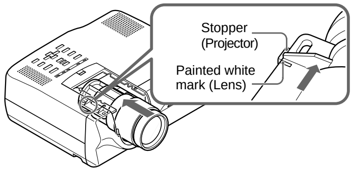


Note

For ease in identification when you install the lens, make sure that the label on the lens is facing up.

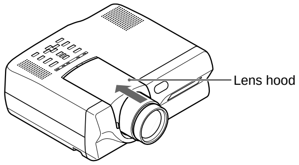
When the lens does not have a stopper

Align the painted white mark (☐) on the lens with the edge of the stopper in the projector.



6 Tighten the four screws to secure the replacement lens firmly.

7 Install the lens hood by sliding it from front to back until it snaps into the lock position.



Notes

- The lens scratches easily, so when handling it, always place it gently on a stable and level surface in a horizontal position.
- Avoid touching the lens surface.

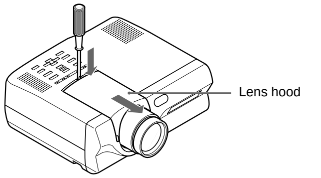
Changing the Lens Position for Rear Projection (Optical Axis Angle: 0 degree)

For rear projection, you can set the optical axis angle to 0 (zero). In this case, you will need to set the lens position as follows.
You can install the following types of lenses for a zero optical axis angle.

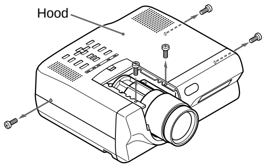
- Standard lens
- VPLL-ZM100 2 times Zoom long focus lens
- VPLL-FM30 Fixed short focus lens
- VPLL-FM20 Fixed short focus lens

1 Turn off the power and disconnect the power cable.

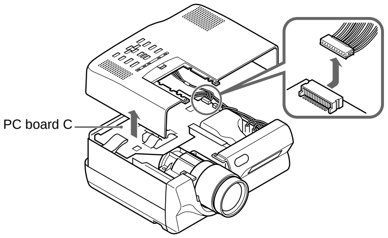
2 Remove the lens hood. To remove the lens hood, insert a screwdriver into the lens hood slit then lightly push down on the hood with the screwdriver and slide the lens hood forward.



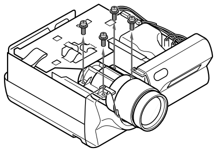
3 Remove the three black screws (M3×8) on the both sides and two black screws (M3×8) on the top locking the hood.



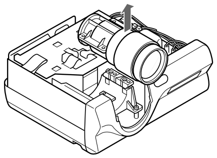
4 Disconnect the 12-pin connector (connected to the PC board C) from the hood. Lift the hood and set it behind the unit.



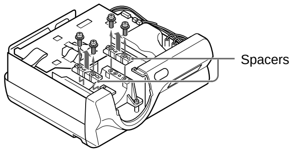
5 Remove the lens hood locking the lens by loosening the four screws (M4×12, with washers) with a Philips screwdriver.



6 Lift and remove the lens.



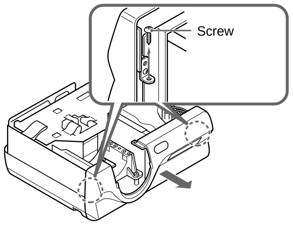
7 Remove the left and right spacers by loosening the four screws (M4×12, with washers).



Note

The spacer and the screws may be needed later on. Store them.

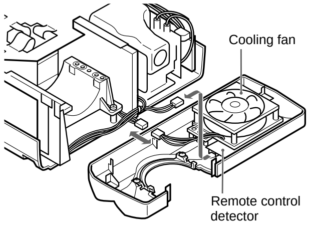
8 Loosen the two screws (M3×8, with washers) locking the front panel.



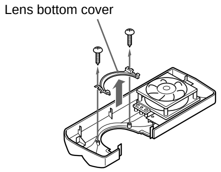
http://getMANUAL.com

Changing the Lens Position for Rear Projection (Optical Axis Angle: 0 degree)

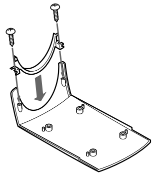
9 Disconnect the two connectors on the back of the front panel, one for cooling fan and the other for remote control detector, and then remove the front panel.


Cooling fan
Remote control detector

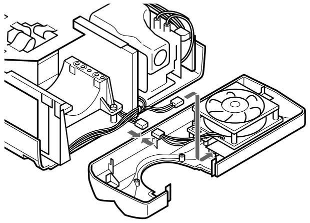
10 Remove the two tapping screws (3×8) from the front panel. Remove the lens bottom cover.


Lens bottom cover

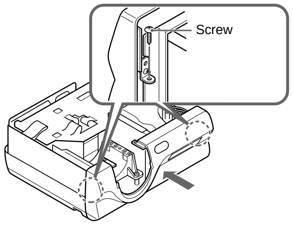
11 Install the lens bottom cover on the lens hood (removed in Step **2**) with the two screws.



12 Connect the connector for remote control detector and the connector for cooling fan.



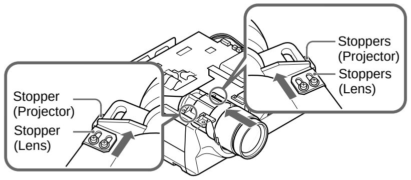
13 Install the front panel and lock with the two screws (M3×8, with washers).



14 Install the lens with the lens stopper and the projector stopper met at their edges.

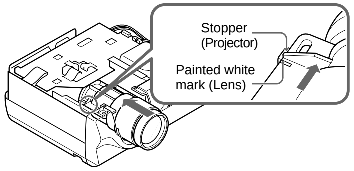
Notes

- When you install the standard lens, make sure that lens stoppers and projector stoppers are met on both sides.
- For ease in identification when you install the lens, make sure that the label on the lens is facing up.

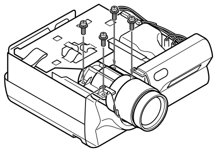

Stopper (Projector)
Stopper (Lens)
Stoppers (Projector)
Stoppers (Lens)

When the lens does not have a stopper

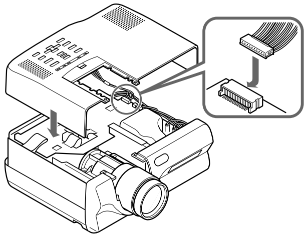
Align the painted white mark (▭) on the lens with the edge of the stopper in the projector.


Stopper (Projector)
Painted white mark (Lens)

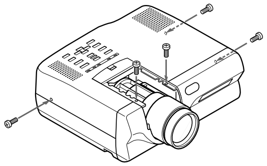
15 Lock the lens by tightening the four screws (M4×12, with washers).



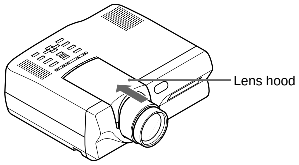
16 Connect the 12-pin connector to the PC board C (disconnected in Step **4**).



17 Install the hood and lock with the five screws (M3×8).

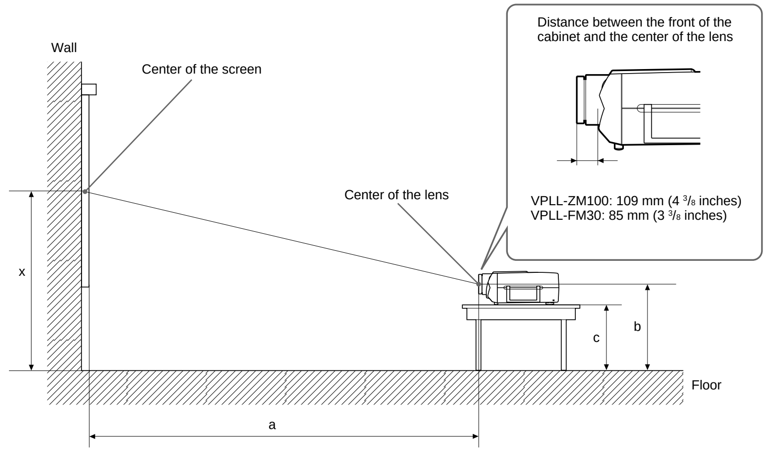


18 Install the lens hood by sliding it from front to back until it snaps into position.



Installation Diagram

Floor Installation (Front Projection)


Wall
Center of the screen
Distance between the front of the cabinet and the center of the lens
VPLL-ZM100: 109 mm (4 3/8 inches)
VPLL-FM30: 85 mm (3 3/8 inches)
Center of the lens
x
c
b
Floor
a

a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 5/8)	31320 (1233 1/8)
b		x–580 (x–22 7/8)	x–725 (x–28 5/8)	x–870 (x–34 3/8)	x–1088 (x–42 7/8)	x–1305 (x–51 1/2)	x–1450 (x–57 1/8)	x–1813 (x–71 1/2)	x–2176 (x–85 3/4)
c		x–663 (x–26 1/8)	x–808 (x–31 7/8)	x–954 (x–37 5/8)	x–1171 (x–46 1/8)	x–1389 (x–54 3/4)	x–1534 (x–60 1/2)	x–1896 (x–74 3/4)	x–2259 (x–89)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.31 – 155) × 1.025
a max = (SS × 140.374/1.31 – 20) × 0.975
b = x – SS/1.31 × 9.5
c = x – (SS/1.31 × 9.5 + 83.3)

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 1/4)	5720 (225 1/4)	6900 (271 3/4)	8660 (341)	10430 (410 3/4)	11600 (456 3/4)	14540 (572 1/2)	17480 (688 1/4)
	Minimum	8670 (341 3/8)	10840 (426 7/8)	13020 (512 5/8)	16270 (640 5/8)	19530 (769)	21710 (854 3/4)	27140 (1068 5/8)	32570 (1282 3/8)
b		x–603 (x–23 3/4)	x–754 (x–29 3/4)	x–905 (x–35 3/4)	x–1131 (x–44 5/8)	x–1357 (x–53 1/2)	x–1508 (x–59 3/8)	x–1885 (x–74 1/4)	x–2262 (x–89 1/8)
c		x–686 (x–27 1/8)	x–837 (x–33)	x–988 (x–39)	x–1214 (x–47 7/8)	x–1440 (x–56 3/4)	x–1591 (x–62 3/4)	x–1968 (x–77 1/2)	x–2345 (x–92 3/8)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
b = x – SS/1.26 × 9.5
c = x – (SS/1.26 × 9.5 + 83.3)

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
b = x – SS/1.29 × 9.5
c = x – (SS/1.29 × 9.5 + 83.3)

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4400 (173 1/4)	5540 (218 1/4)	6680 (263 1/8)	8400 (330 3/4)	10110 (398 1/8)	11250 (443)	14100 (555 1/4)	16950 (667 1/2)
	Minimum	8410 (331 1/4)	10510 (413 7/8)	12620 (497)	15780 (621 3/8)	18940 (745 7/8)	21050 (828 7/8)	26320 (1036 3/8)	31580 (1243 1/2)
b		x–585 (x–23 1/8)	x–731 (x–28 7/8)	x–877 (x–34 5/8)	x–1097 (x–43 1/4)	x–1316 (x–51 7/8)	x–1462 (x–57 5/8)	x–1828 (x–72)	x–2194 (x–86 3/8)
c		x–668 (x–26 3/8)	x–815 (x–32 1/8)	x–961 (x–37 7/8)	x–1180 (x–46 1/2)	x–1399 (x–55 1/8)	x–1546 (x–60 7/8)	x–1911 (x–75 3/8)	x–2277 (x–89 3/4)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.2992 – 155) × 1.025
a max = (SS × 140.374/1.2992 – 20) × 0.975
b = x – SS/1.2992 × 9.5
c = x – (SS/1.2992 × 9.5 + 83.3)

Installation Diagram

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	290
a	1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	x–290 (x–11 1/2)	x–435 (x–17 1/4)	x–580 (x–22 7/8)	x–725 (x–28 5/8)	x–870 (x–34 3/8)	x–1088 (x–42 7/8)	x–1305 (x–51 1/2)	x–1450 (x–57 1/8)	x–1813 (x–71 1/2)	x–2103 (x–82 7/8)
c	x–373 (x–14 3/4)	x–518 (x–20 1/2)	x–663 (x–26 1/8)	x–808 (x–31 7/8)	x–954 (x–37 5/8)	x–1171 (x–46 1/8)	x–1389 (x–54 3/4)	x–1534 (x–60 1/2)	x–1896 (x–74 3/4)	x–2186 (x–86 1/8)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)

$a = 37.313 \times SS/1.31 - 60$

$b = x - SS/1.31 \times 9.5$

$c = x - (SS/1.31 \times 9.5 + 83.3)$

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	270
a	1120 (44 1/8)	1720 (67 3/4)	2310 (91)	2900 (114 1/4)	3490 (137 1/2)	4380 (172 1/2)	5270 (207 1/2)	5860 (230 3/4)	7340 (289)	7940 (312 5/8)
b	x–302 (x–12)	x–452 (x–17 7/8)	x–603 (x–23 3/4)	x–754 (x–29 3/4)	x–905 (x–35 3/4)	x–1131 (x–44 5/8)	x–1357 (x–53 1/2)	x–1508 (x–59 3/8)	x–1885 (x–74 1/4)	x–2036 (x–80 1/4)
c	x–385 (x–15 1/4)	x–536 (x–21 1/8)	x–686 (x–27 1/8)	x–837 (x–33)	x–988 (x–39)	x–1214 (x–47 7/8)	x–1440 (x–56 3/4)	x–1591 (x–62 3/4)	x–1968 (x–77 1/2)	x–2119 (x–83 1/2)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)

$a = 37.313 \times SS/1.26 - 60$

$b = x - SS/1.26 \times 9.5$

$c = x - (SS/1.26 \times 9.5 + 83.3)$

XGA/SXGA signal input

$a = 37.313 \times SS/1.29 - 60$

$b = x - SS/1.29 \times 9.5$

$c = x - (SS/1.29 \times 9.5 + 83.3)$

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	280
a	1090 (43)	1660 (65 3/8)	2240 (88 1/4)	2810 (110 3/4)	3390 (133 1/2)	4250 (167 3/8)	5110 (201 1/4)	5680 (223 3/4)	7120 (280 3/8)	7980 (314 1/4)
b	x–292 (x–11 5/8)	x–439 (x–17 3/8)	x–585 (x–23 1/8)	x–731 (x–28 7/8)	x–877 (x–34 5/8)	x–1097 (x–43 1/4)	x–1316 (x–51 7/8)	x–1462 (x–57 5/8)	x–1828 (x–72)	x–2047 (x–80 5/8)
c	x–376 (x–14 7/8)	x–522 (x–20 5/8)	x–668 (x–26 3/8)	x–815 (x–32 1/8)	x–961 (x–37 7/8)	x–1180 (x–46 1/2)	x–1399 (x–55 1/8)	x–1546 (x–60 7/8)	x–1911 (x–75 3/8)	x–2131 (x–84)

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)

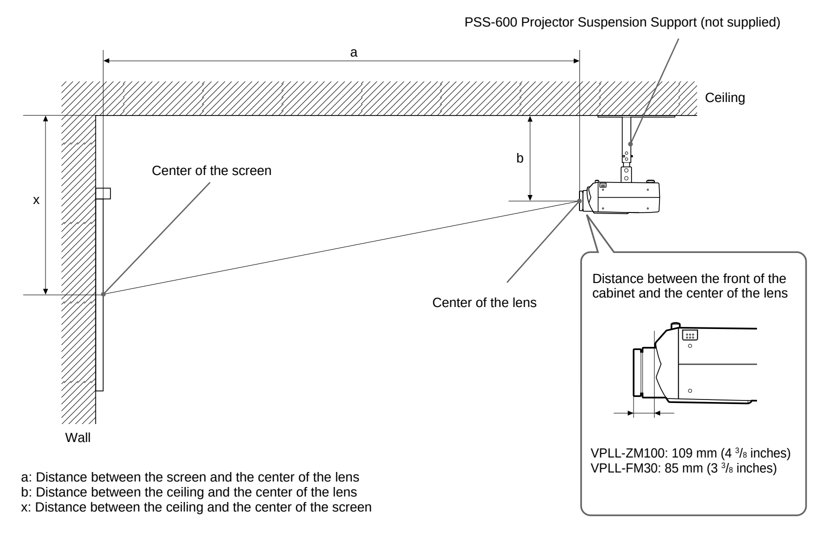
$a = 37.313 \times SS/1.2992 - 60$

$b = x - SS/1.2992 \times 9.5$

$c = x - (SS/1.2992 \times 9.5 + 83.3)$

Ceiling Installation (Front Projection)

When installing the projector on the ceiling, use the PSS-600 Projector Suspension Support.


PSS-600 Projector Suspension Support (not supplied)
a
Ceiling
b
x
Center of the screen
Center of the lens
Wall
Distance between the front of the cabinet and the center of the lens
VPLL-ZM100: 109 mm (4 3/8 inches)
VPLL-FM30: 85 mm (3 3/8 inches)

a: Distance between the screen and the center of the lens
b: Distance between the ceiling and the center of the lens
x: Distance between the ceiling and the center of the screen

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 5/8)	31320 (1233 1/8)
x		b+580 (b+22 7/8)	b+725 (b+28 5/8)	b+870 (b+34 3/8)	b+1088 (b+42 7/8)	b+1305 (b+51 1/2)	b+1450 (b+57 1/8)	b+1813 (b+71 1/2)	b+2176 (b+85 3/4)
b		When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 7/8, 12 7/8, 13 7/8, 14 7/8)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)

$a\ min = (SS \times 72.290/1.31 - 155) \times 1.025$

$a\ max = (SS \times 140.374/1.31 - 20) \times 0.975$

$x = b + SS \times 9.5/1.31$

(Continued)

Installation Diagram

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 ¼)	5720 (225 ¼)	6900 (271 ¾)	8660 (341)	10430 (410 ¾)	11600 (456 ¾)	14540 (572 ½)	17480 (688 ¼)
	Maximum	8670 (341 ⅜)	10840 (426 ⅞)	13020 (512 ⅝)	16270 (640 ⅝)	19530 (769)	21710 (854 ¾)	27140 (1068 ⅝)	32570 (1282 ⅜)
x		b+603 (b+23 ¾)	b+754 (b+29 ¾)	b+905 (b+35 ¾)	b+1131 (b+44 ⅝)	b+1357 (b+53 ½)	b+1508 (b+59 ⅜)	b+1885 (b+74 ¼)	b+2262 (b+89 ⅛)
b		When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 ⅞, 12 ⅞, 13 ⅞, 14 ⅞)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
x = b + SS × 9.5/1.26

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
x = b + SS × 9.5/1.29

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4400 (173 ¼)	5540 (218 ¼)	6680 (263 ⅛)	8400 (330 ¾)	10110 (398 ⅛)	11250 (443)	14100 (555 ¼)	16950 (667 ½)
	Maximum	8410 (331 ¼)	10510 (413 ⅞)	12620 (497)	15780 (621 ⅜)	18940 (745 ⅞)	21050 (828 ⅞)	26320 (1036 ⅜)	31580 (1243 ½)
x		b+585 (b+23 ⅛)	b+731 (b+28 ⅞)	b+877 (b+34 ⅝)	b+1097 (b+43 ¼)	b+1316 (b+51 ⅞)	b+1462 (b+57 ⅝)	b+1828 (b+72)	b+2194 (b+86 ⅜)
b		When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 ⅞, 12 ⅞, 13 ⅞, 14 ⅞)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.2992 – 155) × 1.025
a max = (SS × 140.374/1.2992 – 20) × 0.975
x = b + SS /1.2992× 9.5

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)	80	100	120	150	180	200	250	290
a	2220 (87 ½)	2790 (109 ⅞)	3360 (132 ⅜)	4210 (165 ¾)	5070 (199 ⅝)	5640 (222 ⅛)	7060 (278)	8200 (322 ⅞)
x	b+580 (b+22 ⅞)	b+725 (b+28 ⅝)	b+870 (b+34 ⅜)	b+1088 (b+42 ⅞)	b+1305 (b+51 ½)	b+1450 (b+57 ⅛)	b+1813 (b+71 ½)	b+2103 (b+82 ⅞)
b	When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 ⅞, 12 ⅞, 13 ⅞, 14 ⅞)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.31 – 60
x = b + SS/1.31 × 9.5

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	80	100	120	150	180	200	250	270
a	2310 (91)	2900 (114 ¼)	3490 (137 ½)	4380 (172 ½)	5270 (207 ½)	5860 (230 ¾)	7340 (289)	7940 (312 ⅝)
x	b+603 (b+23 ¾)	b+754 (b+29 ¾)	b+905 (b+35 ¾)	b+1131 (b+44 ⅝)	b+1357 (b+53 ½)	b+1508 (b+59 ⅜)	b+1885 (b+74 ¼)	b+2036 (b+80 ¼)
b	When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 ⅞, 12 ⅞, 13 ⅞, 14 ⅞)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.26 – 60
x = b + SS/1.26 × 9.5

XGA/SXGA signal input
a = 37.313 × SS/1.29 – 60
x = b + SS/1.29 × 9.5

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

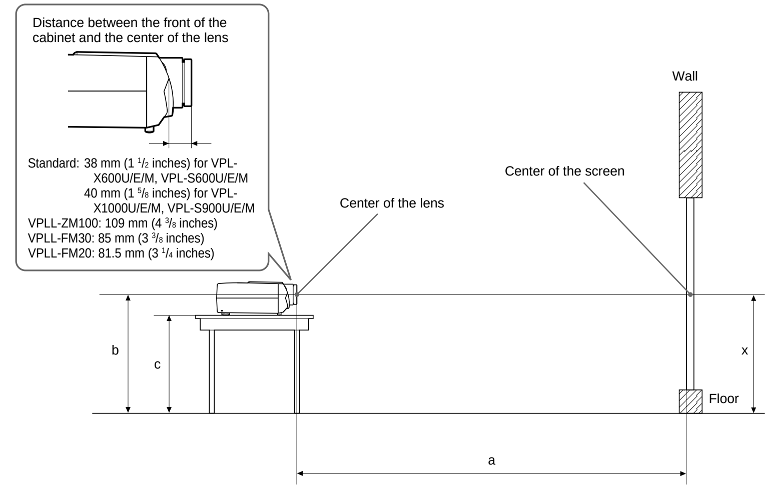
Screen size (inches)	80	100	120	150	180	200	250	280
a	2240 (88 ¼)	2810 (110 ¾)	3390 (133 ½)	4250 (167 ⅜)	5110 (201 ¼)	5680 (223 ¾)	7120 (280 ⅜)	7980 (314 ¼)
x	b+585 (b+23 ⅛)	b+731 (b+28 ⅞)	b+877 (b+34 ⅝)	b+1097 (b+43 ¼)	b+1316 (b+51 ⅞)	b+1462 (b+57 ⅝)	b+1828 (b+72)	b+2047 (b+80 ⅝)
b	When using PSS-600, the height can be adjusted 226, 251, 276, 326, 351, 376 (9, 10, 10 ⅞, 12 ⅞, 13 ⅞, 14 ⅞)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.2992 – 60
x = b + SS/1.2992 × 9.5

Installation Diagram

Floor Installation (Rear Projection: Optical Axis Angle 0 Degree)


Distance between the front of the cabinet and the center of the lens
Standard: 38 mm (1 1/2 inches) for VPL-X600U/E/M, VPL-S600U/E/M
40 mm (1 5/8 inches) for VPL-X1000U/E/M, VPL-S900U/E/M
VPLL-ZM100: 109 mm (4 3/8 inches)
VPLL-FM30: 85 mm (3 3/8 inches)
VPLL-FM20: 81.5 mm (3 1/4 inches)
Wall
Center of the screen
Center of the lens
b
c
x
Floor
a

a: distance between the screen and the center of the lens
b: distance between the floor and the center of the lens
c: distance between the floor and the bottom of the projector
x: free

Note

If the projector has been set at the factory and if you project a picture from the rear, the picture will be upside down. If you use a mirror, the picture may be reversed. In these cases, change the INSTALLATION in the SET SETTING menu.

For details, refer to the INSTALLATION in the Operating Instructions for your LCD data projector.

When using the Standard lens

For the VPL-X600U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1490 (58 3/4)	2270 (89 3/8)	3060 (120 1/2)	3850 (151 5/8)	4630 (182 3/8)	5810 (228 3/4)	6990 (275 1/4)	7780 (306 3/8)	9740 (383 1/2)	11710 (461 1/8)
	Maximum	1890 (74 1/2)	2870 (113)	3860 (152)	4840 (190 5/8)	5830 (229 5/8)	7310 (287 7/8)	8780 (345 3/4)	9770 (384 3/4)	12230 (481 1/2)	14700 (578 3/4)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 50.249/1.31 – 84) × 1.025
a max = (SS × 66.195/1.31 – 87) × 0.975
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1550 (64 1/8)	2370 (93 3/8)	3180 (125 1/4)	4000 (157 1/2)	4820 (189 7/8)	6050 (238 1/4)	7270 (286 1/4)	8090 (318 5/8)	10130 (398 7/2)	12180 (479 5/8)
	Maximum	1960 (77 1/4)	2990 (117 3/4)	4010 (157 7/8)	5040 (198 1/2)	6060 (238 5/8)	7600 (299 1/4)	9140 (359 7/8)	10160 (400)	12720 (500 7/8)	15280 (601 5/8)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 50.249/1.26 – 84) × 1.025
a max = (SS × 66.195/1.26 – 87) × 0.975
b = x
c = x – 74

XGA/SXGA signal input
a min = (SS × 50.249/1.29 – 84) × 1.025
a max = (SS × 66.195/1.29 – 87) × 0.975
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

For the VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1560 (61 1/2)	2380 (93 3/4)	3210 (126 1/2)	4040 (159 1/8)	4860 (191 3/8)	6100 (240 1/4)	7340 (289 1/8)	8170 (321 3/4)	10240 (403 1/4)	12300 (484 3/8)
	Maximum	1980 (78)	3020 (118 15/16)	4050 (159 1/2)	5090 (200 1/2)	6120 (241)	7680 (302 3/8)	9230 (363 1/2)	10270 (404 3/8)	12860 (506 3/8)	15450 (608 3/8)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 52.83/1.3102 – 95.03) × 1.025
a max = (SS × 69.64/1.3102 – 96.17) × 0.975
b = x
c = x – 74

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150	180	200	250	300
a	Minimum	1570 (61 7/8)	2400 (94 1/2)	3240 (127 5/8)	4070 (160 3/8)	4900 (193)	6150 (242 1/4)	7410 (291 7/8)	8240 (324 1/2)	10320 (406 3/8)	12410 (488 3/4)
	Maximum	2000 (78 3/4)	3040 (119 3/4)	4090 (161 1/8)	5130 (202)	6180 (243 3/8)	7750 (305 1/4)	9310 (366 5/8)	10360 (408)	12970 (510 3/4)	15580 (613 1/2)
b		x (x)									
c		x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 52.83/1.2992 – 95.03) × 1.025
a max = (SS × 69.64/1.2992 – 96.17) × 0.975
b = x
c = x – 74

When using the VPLL-ZM100 2 times Zoom long focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4370 (172 1/8)	5500 (216 1/8)	6630 (261 1/8)	8330 (328)	10020 (394 1/2)	11150 (439)	13980 (550 1/2)	16810 (661 7/8)
	Maximum	8340 (328 3/8)	10430 (410 3/4)	12520 (493)	15650 (616 1/4)	18790 (739 7/8)	20880 (822 1/8)	26100 (1027 5/8)	31320 (1233 1/8)
b		x (x)							
c		x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.31 – 155) × 1.025
a max = (SS × 140.374/1.31 – 20) × 0.975
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4550 (179 1/4)	5720 (225 1/4)	6900 (271 3/4)	8660 (341)	10430 (410 3/4)	11600 (456 3/4)	14540 (572 1/2)	17840 (688 1/4)
	Maximum	8670 (341 3/8)	10840 (426 7/8)	13020 (512 5/8)	16270 (640 5/8)	19530 (769)	21710 (854 3/4)	27140 (1068 5/8)	32570 (1282 3/8)
b		x (x)							
c		x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.26 – 155) × 1.025
a max = (SS × 140.374/1.26 – 20) × 0.975
b = x
c = x – 74

XGA/SXGA signal input
a min = (SS × 72.290/1.29 – 155) × 1.025
a max = (SS × 140.374/1.29 – 20) × 0.975
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

Installation Diagram

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)		80	100	120	150	180	200	250	300
a	Minimum	4400 (173 1/4)	5540 (218 1/4)	6680 (263 1/8)	8400 (330 3/4)	10110 (398 1/8)	11250 (443)	14100 (555 1/4)	16950 (667 1/2)
	Maximum	8410 (331 1/4)	10510 (413 7/8)	12620 (497)	15780 (621 3/8)	18940 (745 7/8)	21050 (828 7/8)	26320 (1036 3/8)	31580 (1243 1/2)
b		x (x)							
c		x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a min = (SS × 72.290/1.2992 – 155) × 1.025
a max = (SS × 140.374/1.2992 – 20) × 0.975
b = x
c = x – 74

When using the VPLL-FM30 Fixed short focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	290
a	1080 (42 5/8)	1650 (65)	2220 (87 1/2)	2790 (109 7/8)	3360 (132 3/8)	4210 (165 3/4)	5070 (199 5/8)	5640 (222 1/8)	7060 (278)	8200 (322 7/8)
b	x (x)									
c	x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.31 – 60
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	270
a	1120 (44 1/8)	1720 (67 3/4)	2310 (91)	2900 (114 1/4)	3490 (137 1/2)	4380 (172 1/2)	5270 (207 1/2)	5860 (230 3/4)	7340 (289)	7940 (312 5/8)
b	x (x)									
c	x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.26 – 60
b = x
c = x – 74

XGA/SXGA signal input
a = 37.313 × SS/1.29 – 60
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)	40	60	80	100	120	150	180	200	250	280
a	1090 (43)	1660 (65 3/8)	2240 (88 1/4)	2810 (110 3/4)	3390 (133 1/2)	4250 (167 3/8)	5110 (201 1/4)	5680 (223 3/4)	7120 (280 3/8)	7980 (314 1/4)
b	x (x)									
c	x–74 (x–3)									

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 37.313 × SS/1.2992 – 60
b = x
c = x – 74

Installation Diagram

When using the VPLL-FM20 Fixed short focus lens

For the VPL-X600U/E/M, VPL-X1000U/E/M

Unit: mm (inches)

Screen size (inches)	50	60	80	100	120	150	180	200
a	860 (33 7/8)	1050 (41 3/8)	1420 (56)	1790 (70 1/2)	2160 (85 1/8)	2720 (107 1/8)	3270 (128 3/4)	3640 (143 3/8)
b	x (x)							
c	x–74 (x–3 3/8)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 24.275 × SS/1.31 – 64
b = x
c = x – 74

For the VPL-S600U/E/M

Unit: mm (inches)

Screen size (inches)	50	60	80	100	120	150	180	190
a	900 (35 1/2)	1090 (43)	1480 (58 3/8)	1860 (73 1/4)	2250 (88 5/8)	2830 (111 1/2)	3400 (133 7/8)	3600 (141 3/4)
b	x (x)							
c	x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 24.275 × SS/1.26 – 64
b = x
c = x – 74

XGA/SXGA signal input
a = 24.275 × SS/1.29 – 64
b = x
c = x – 74

Macintosh 16-inch mode signal (horizontal 832 × vertical 624)/HDTV input
Refer to the table of the VPL-X600U/E/M.

For the VPL-S900U/E/M

Unit: mm (inches)

Screen size (inches)	50	60	80	100	120	150	180	190
a	870 (34 3/8)	1060 (41 3/4)	1430 (56 3/8)	1800 (70 7/8)	2180 (85 7/8)	2740 (108)	3300 (130)	3490 (137 1/2)
b	x (x)							
c	x–74 (x–3)							

Method of calculation (unit: mm)

SS: Screen size diagonal (inches)
a = 24.275 × SS/1.2992 – 64
b = x
c = x – 74

1-3. IFB-X600E OPERATING INSTRUCTIONS

3-862-502-**11** (1)

Interface Board

Operating Instructions	**Page 2**
Mode d’emploi	**Page 6**
Bedienungsanleitung	**Seite 10**
Manual de instrucciones	**Página 14**
Istruzioni per l’uso	**Pagina 18**

IFB-X600E

© 1998 by Sony Corporation

English

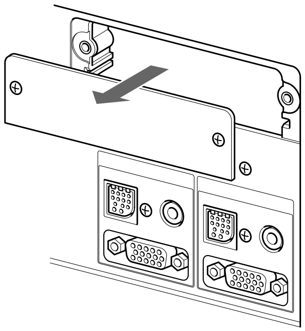
The IFB-X600E interface board is designed to be mounted on Sony VPL-X600E/S600E LCD data projector so that composite video or S video (Y/C) signals and audio signals from video equipment can be input.

Mounting the IFB-X600E

Note

Before installing the board, make sure the following have been done:
- Turn off the power of the projector.
- Disconnect the projector power cable from the wall outlet.

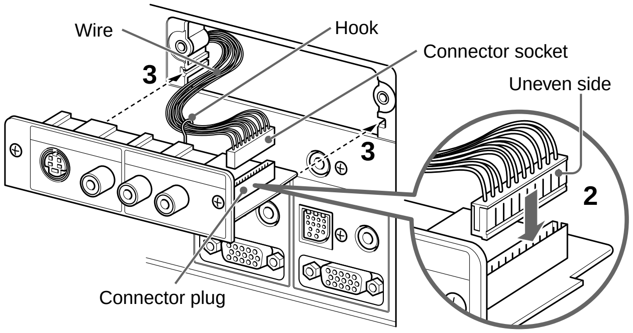
1. **Remove the blind plate on the rear of the projector by loosening the two screws with the supplied Philips screwdriver.**



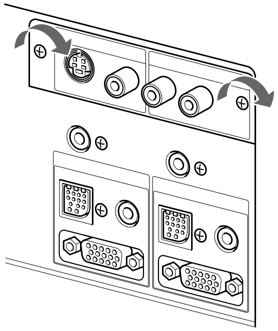
2. **Pull out the connector socket from the projector. Insert the connector socket (set the uneven side on the right) into the interface board connector plug. Gather the wires together and place them in the hook of the interface board.**
3. **Insert the interface board by aligning it with the projector guides.**

Caution

Make sure that the wire is not caught between the opening of the projector and the board.

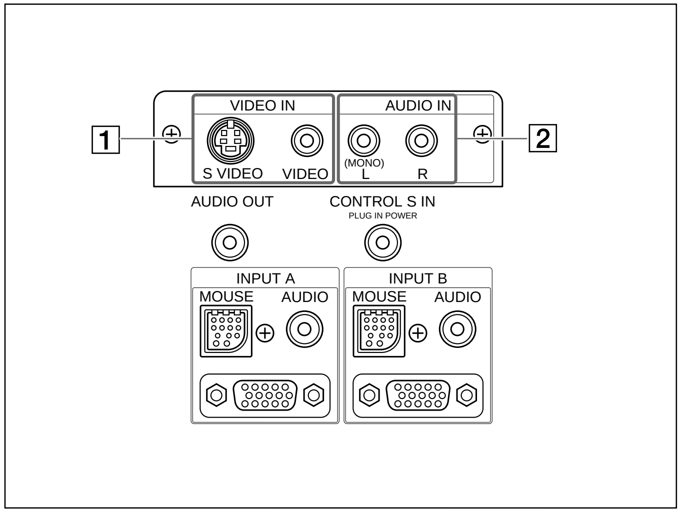


4. **Tighten the two interface board screws.**



http://getMANUAL.com

Location and Function of Parts



1 **VIDEO IN jacks**

S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.

VIDEO (phono type): Connects to the composite video output of video equipment.

Note

If you connect video equipment to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected. When projecting the picture via the VIDEO jack, be sure not to connect a cable to the S VIDEO jack.

2 **AUDIO IN L (MONO)/R jacks (phono type):**
Connect to the audio output of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

Specifications

VIDEO IN jacks

S VIDEO (4-pin mini-DIN type):

Y (luminance) signal input: 1 Vp-p ± 2 dB, sync negative, 75 ohms terminated

C (chrominance) signal input: burst 0.286 Vp-p ± 2 dB (NTSC), burst 0.3 Vp-p ± 2 dB (PAL), 75 ohms terminated

VIDEO (phono type):

Composite video signal input, 1 Vp-p ± 2 dB, sync negative, 75 ohms terminated

AUDIO IN jacks

L (MONO) / R (phono type):

500 mVrms, impedance more than 47 kilohms

Supplied accessories

Audio/Video cable (1)
Philips screwdriver (1)

Design and specifications are subject to change without notice.

SONY

3-862-500-**01**(1)

Projector Suspension Support

Installation manual
Manuel d’installation
Installationshandbuch
Manual de instalación
Manuale d’installazione

TÜV Rheinland
BAUART GEPRÜFT
TYPE APPROVED

PSS-600

© 1998 by Sony Corporation

English

Maximum load: 10 kg (22 lb 1 oz)

The PSS-600 suspension support is designed to be used with the Sony VPL-X600U/E/M or VPL-S600U/E/M LCD data projector.

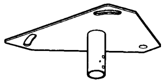
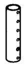
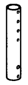
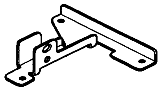
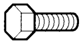
Caution
- For installation, consult with qualified Sony personnel.
- The ceiling should be capable of supporting a weight of at least 60 kg (132 lb 4 oz); if not, the ceiling must be reinforced.
- When you attach the bracket directly to the ceiling, use commercially available M10 bolts with nuts and washers, depending on the ceiling. Use of other bolts, nuts, and washers other than M10 may present a danger of falling.
- Be sure to assemble and attach the bracket in the order indicated; otherwise the projector may fall.

Table of contents

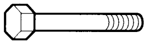
English

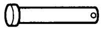
Parts List 5
Installation Diagram 8
Attaching to the ceiling 12
Installation Examples 18
Specifications 22

Parts List

(a)	**Upper ceiling mount bracket (1)**		
(b)	**Adjustment pipe (1)**		
(c)	**Adjustment pipe (1)**		
(d)	**Projector mount bracket (1)**		
(e)	**Bolt M5 x 14 (3)**	Parts number 4-063-982-01	

Parts List

(f)	**Bolt M8 x 50 (2)**	Parts number 4-047-746-11	
(g)	**Screw M4 x 6 (6)**	Parts number 4-047-765-11	
(h)	**Washer M5 (3)**	Parts number 4-063-983-01	
(i)	**Washer M8 (4)**	Parts number 4-047-748-11	
(j)	**Spring washer M5 (3)**	Parts numbe 4-063-984-01	

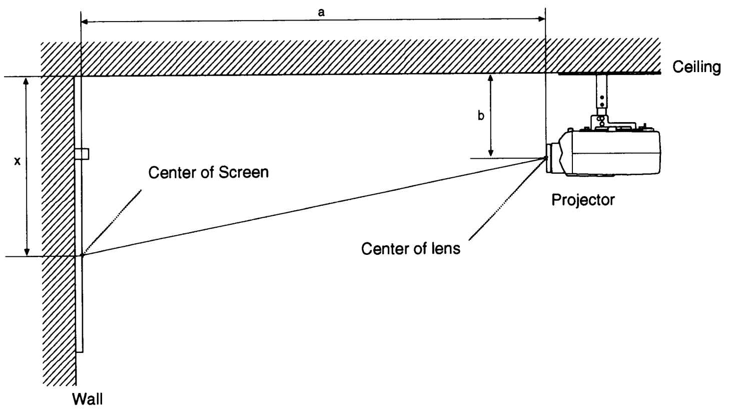
(k)	**Toothed lock washer M8 (4)**	Parts number 4-047-743-11	
(l)	**Nut M8 (2)**	Parts number 4-047-742-11	
(m)	**6 mm pin (2)**	Parts number 4-047-744-11	
(n)	**Snap pin (2)**	Parts number 4-047-903-11	

Installation Diagram

For details of screen size and installation measurement for projection, refer to the following manuals:

- Operating Instructions
- Installation Manual for Dealers
- Installation Manual of the projection lens (when using the optional lens)

Side view


a
Ceiling
b
x
Center of Screen
Projector
Center of lens
Wall

a: Distance between the screen and the center of lens

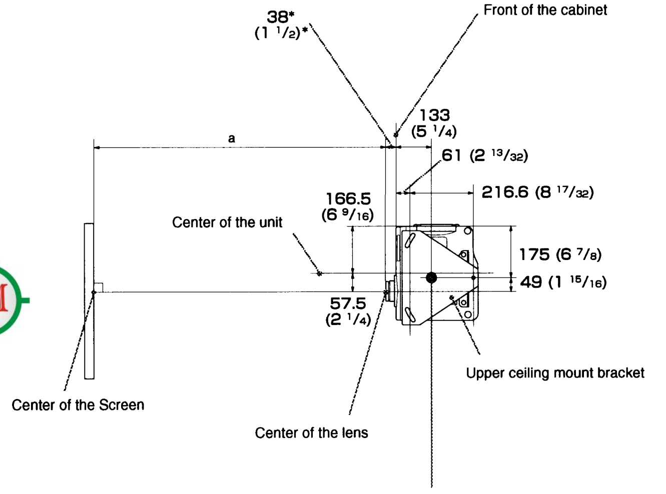
b: Distance between the ceiling and the center of lens. For details, see page 11.

x: Distance between the ceiling and the center of screen

Installation Diagram

Top view

Align the center of the lens with the center of the screen.

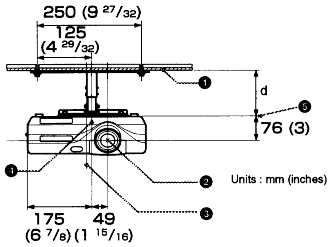

38*
(1 1/2)*
Front of the cabinet
133
(5 1/4)
a
61 (2 13/32)
216.6 (8 17/32)
166.5
(6 9/16)
Center of the unit
175 (6 7/8)
49 (1 15/16)
57.5
(2 1/4)
Upper ceiling mount bracket
Center of the Screen
Center of the lens
Center of the supporting pole (The center of the supporting pole is different from that of the unit)

Units : mm (inches)

* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

Front view

The lens is offset 49 mm (1 $^{15}/_{16}$ inches) to the right from the center of the supporting pole. When mounting, take care to align the center of the lens with the center of the screen; not the center of the supporting pole.



d: Distance between the ceiling and the surface of the mounting bracket
Using adjustment pipe (b) : 150/175/200 mm (6/7/7 ^{7}/8 inches)
Using adjustment pipe (c) : 250/275/300 mm (9 ^{7}/8 /10 ^{7}/8 /11 ^{7}/8 inches)

① Ceiling

② Center of the lens

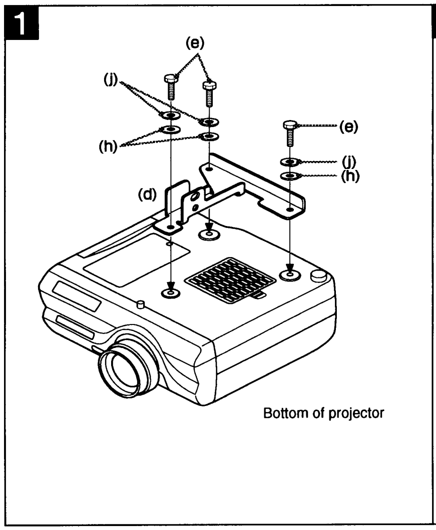
③ Center of the unit

④ Center of the supporting pole

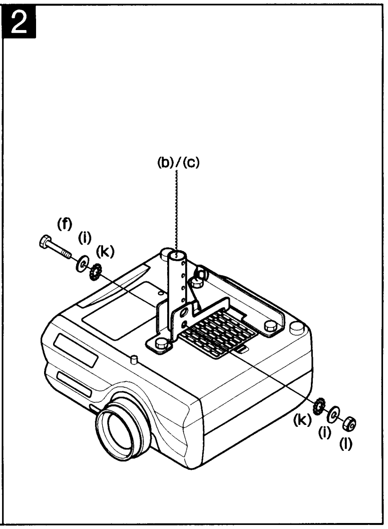
⑤ The bottom surface of the mounting bracket

Attaching to the ceiling

1



2



English

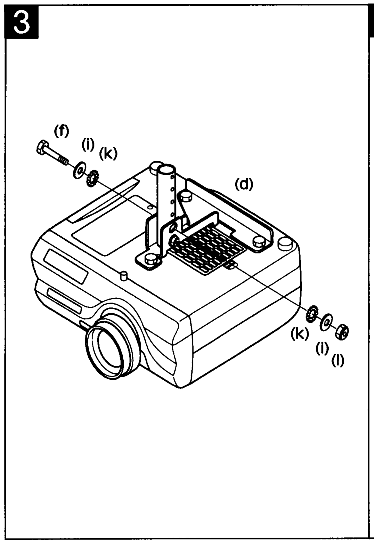
1 Turn the projector upside down and attach the projector mount bracket (d) using three bolts M5 x 14 (e), three washers M5 (h) and three spring washers M5 (j).

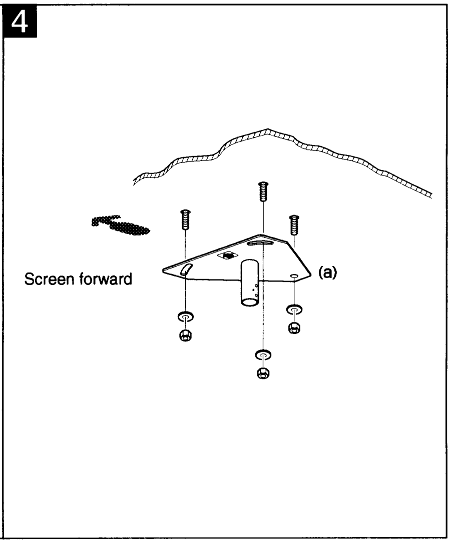
Notes

- When attaching the bracket, be careful not to overtighten the bolts.
- Before attaching the projector mount bracket, place a protective sheet (cloth) beneath the projector.

2 Attach adjustment pipe (b) or (c) to projector mount bracket (d) using a bolt M8 x 50 (f), two washers M8 (i), two thoothed lock washers M8 (k) and a nut M8 (l).
Adjustable height using the pipe (b) is 150/175/200 mm (6/7/7 $^{7}/_{8}$ inches).
Adjustable height using the pipe (c) is 250/275/300 mm (9 $^{7}/_{8}$ /10 $^{7}/_{8}$ /11 $^{7}/_{8}$ inches).

Attaching to the ceiling



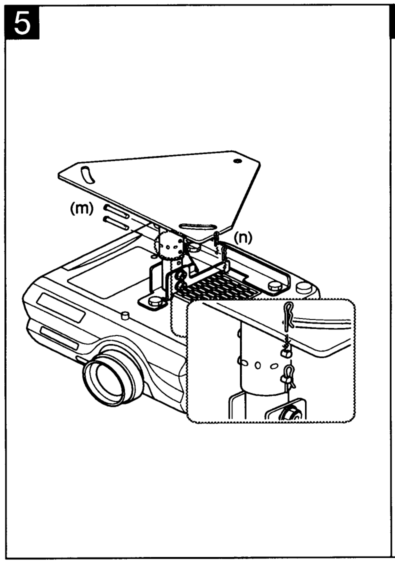


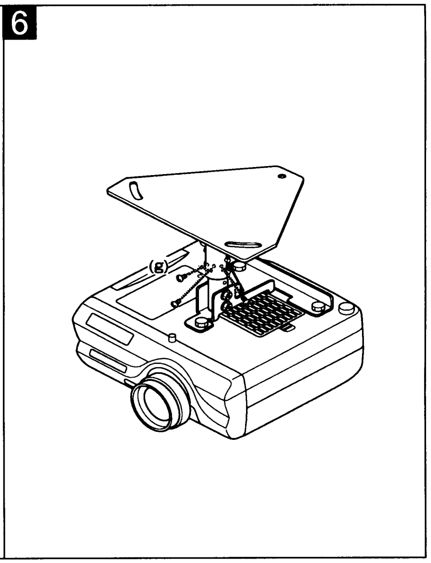
English

3 Attach the adjustment pipe to the projector mount bracket (d) using a bolt M8 x 50 (f), two toothed lock washers M8 (k), two washers M8 (i) and a nut M8 (l).
Attach the pipes so that the projector becomes level. You may tilt the projector slightly, but this will make the projected picture trapezoidal.

4 Attach the upper ceiling mount bracket (a) to the ceiling.
Use M 10 bolts, nuts and washers (not supplied).

Attaching to the ceiling





English

5 Insert the adjustment pipe into the upper ceiling mount bracket (a). Attach the pipe with the two 6 mm pins (m) and the two snap pins (n).
Pipe (b) can be adjusted to a height of 150/175/200 mm (6/7/7 $^{7}/_{8}$ inches); pipe (c) can be adjusted to a length of between 250/275/300 mm (9 $^{7}/_{8}$ /10 $^{7}/_{8}$ /11 $^{7}/_{8}$ inches).

6 Secure the ceiling mount bracket (a) and the adjustment pipe you attached in step 5.
Use six M4 × 6 bolts (g).
Then, tighten the bolts you attached in step 3 to secure the adjustment pipe.

Installation Examples

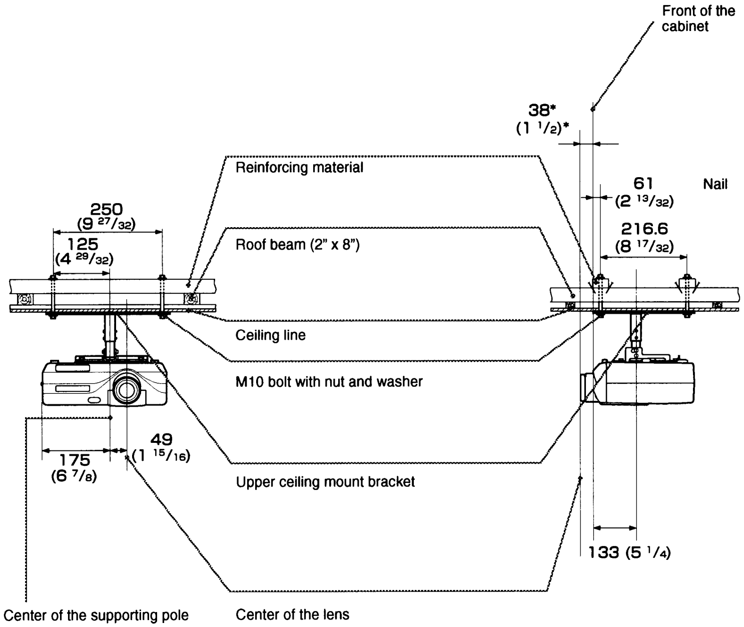
The following illustrations show the projector suspension support attached to with the ceiling. Installation is different depending on the material of ceiling.

Caution

Before installation, check that the maximum ceiling loading is in excess of 60 kg (132 lb 4 oz) .

For wooden ceiling

For-one-story house or uppermost floor

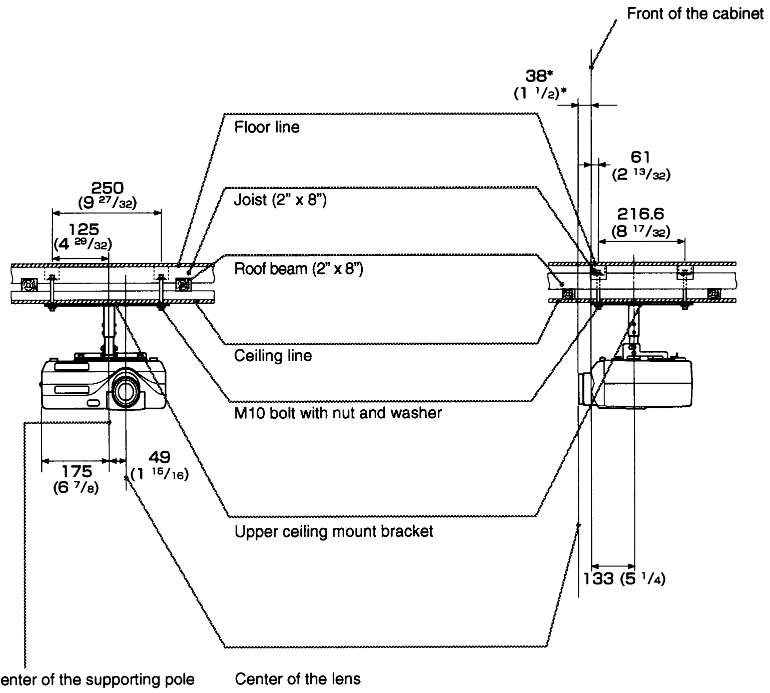

Front of the cabinet
38*
(1 1/2)*
Reinforcing material
61
(2 13/32)
Nail
250
(9 27/32)
125
(4 29/32)
216.6
(8 17/32)
Roof beam (2" x 8")
Ceiling line
M10 bolt with nut and washer
49
(1 15/16)
175
(6 7/8)
Upper ceiling mount bracket
133 (5 1/4)
Center of the supporting pole
Center of the lens

* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

Units : mm (inches)

Installation Examples

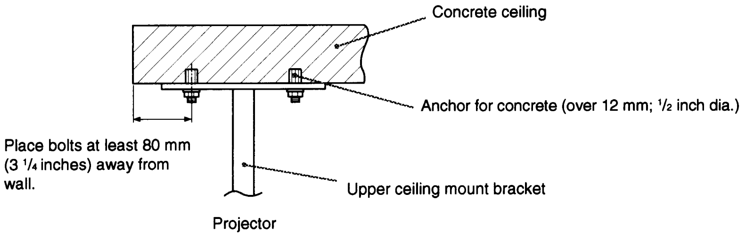
For other floors


Front of the cabinet
38*
(1 1/2)*
Floor line
61
(2 13/32)
250
(9 27/32)
Joist (2" x 8")
216.6
(8 17/32)
125
(4 29/32)
Roof beam (2" x 8")
Ceiling line
M10 bolt with nut and washer
49
175
(1 15/16)
(6 7/8)
Upper ceiling mount bracket
133 (5 1/4)
Center of the supporting pole
Center of the lens

* When using the standard lens equipped with VPL-X600U/E/M / S600U/E/M

Units : mm (inches)

For concrete ceiling

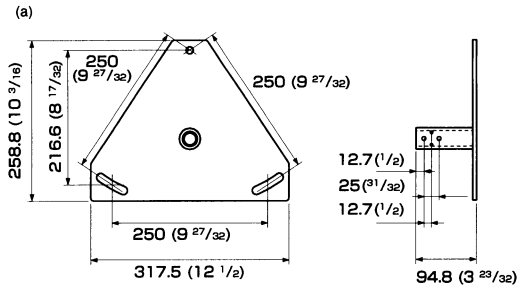

Concrete ceiling
Anchor for concrete (over 12 mm; 1/2 inch dia.)
Place bolts at least 80 mm
(3 1/4 inches) away from
wall.
Upper ceiling mount bracket
Projector

http://getMANUAL.com

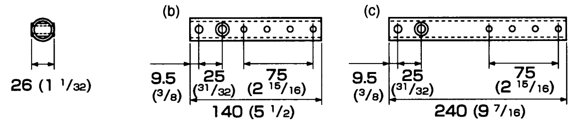
Specifications

Dimensions

Upper ceiling mount bracket

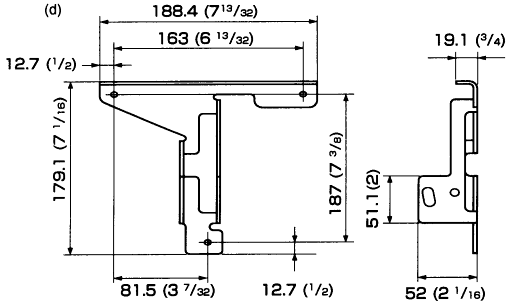

(a)
250 (9 27/32)
250 (9 27/32)
258.8 (10 3/16)
216.6 (8 17/32)
250 (9 27/32)
317.5 (12 1/2)
12.7 (1/2)
25 (31/32)
12.7 (1/2)
94.8 (3 23/32)

Adjustment pipes


26 (1 1/32)
(b)
9.5 (3/8)
25 (31/32)
75 (2 15/16)
140 (5 1/2)
(c)
9.5 (3/8)
25 (31/32)
75 (2 15/16)
240 (9 7/16)

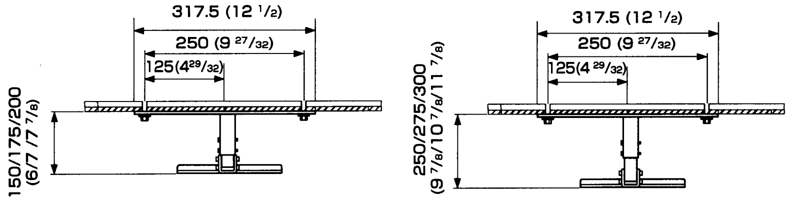
Projector mount bracket

Units : mm (inches)


(d)
188.4 (7 13/32)
163 (6 13/32)
12.7 (1/2)
179.1 (7 1/16)
187 (7 3/8)
81.5 (3 7/32)
12.7 (1/2)
19.1 (3/4)
51.1 (2)
52 (2 1/16)

Dimensions of the assembled bracket

Front view


317.5 (12 1/2)
250 (9 27/32)
125 (4 29/32)
150/175/200 (6/7 (7 7/8)
317.5 (12 1/2)
250 (9 27/32)
125 (4 29/32)
250/275/300 (9 7/8/10 7/8/11 7/8)

Units : mm (inches)

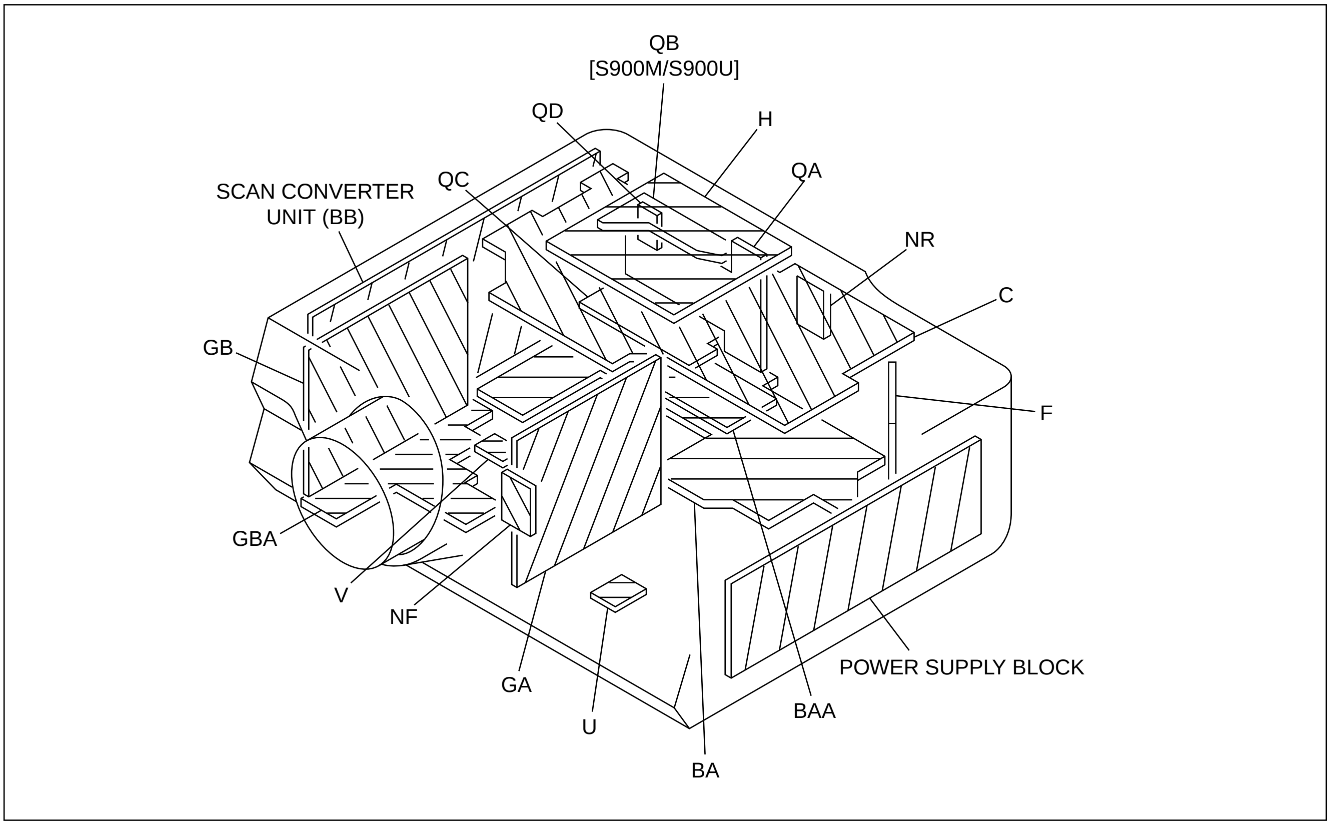
Mass Approx. 2.7 kg (5 lb 15 oz)

Loading Maximum loading :10 kg (22 lb 1 oz)

Design and specifications are subject to change without notice.

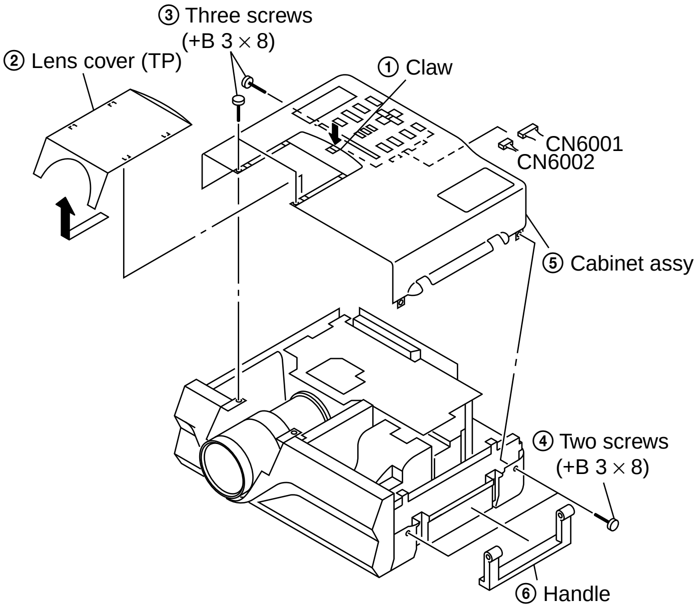
SECTION 2
SERVICE INFORMATIONS

2-1. CIRCUIT BOARDS LOCATION

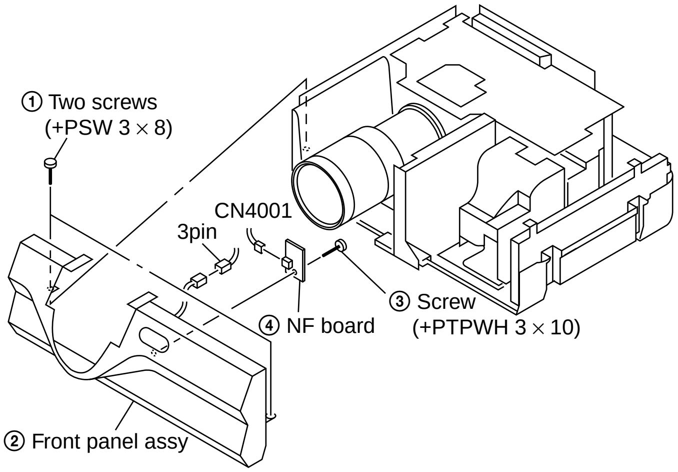

QB
[S900M/S900U]
QD
H
QA
SCAN CONVERTER
UNIT (BB)
QC
NR
C
GB
F
GBA
V
NF
POWER SUPPLY BLOCK
GA
BAA
U
BA

2-2. DISASSEMBLY

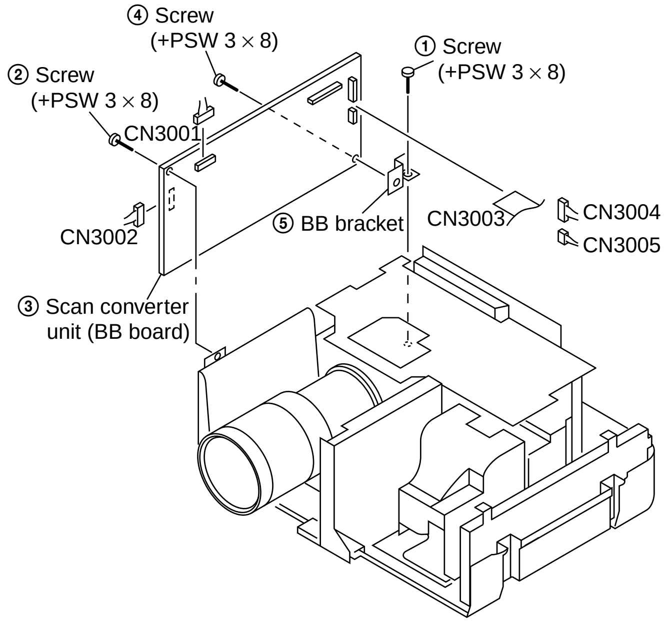
2-2-1. Cabinet Assy Removal


③ Three screws
(+B 3 × 8)
② Lens cover (TP)
① Claw
CN6001
CN6002
⑤ Cabinet assy
④ Two screws
(+B 3 × 8)
⑥ Handle

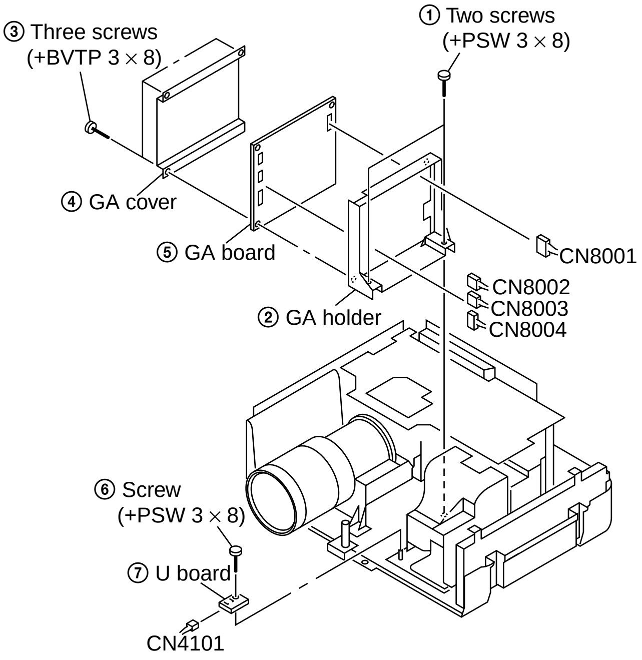
2-2-2. Front Panel Assy and NF Board Removal


① Two screws
(+PSW 3 × 8)
CN4001
3pin
③ Screw
(+PTPWH 3 × 10)
④ NF board
② Front panel assy

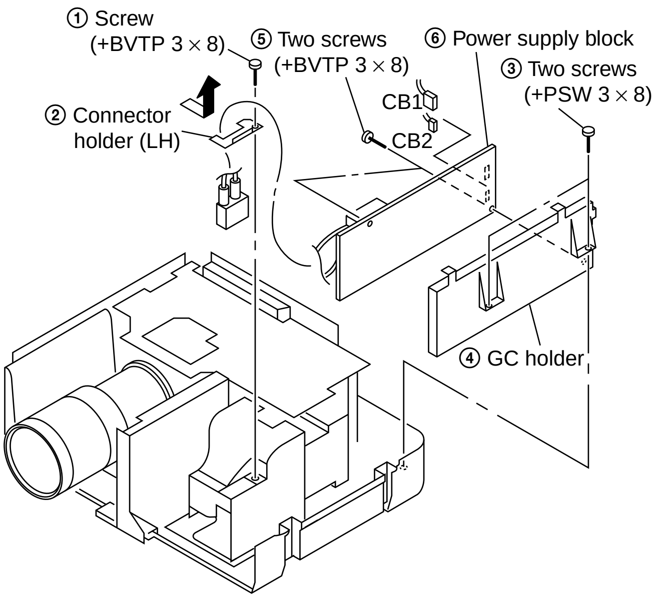
2-2-3. Scan Converter Unit Removal


④ Screw
(+PSW 3 × 8)
① Screw
(+PSW 3 × 8)
② Screw
(+PSW 3 × 8)
CN3001
CN3002
⑤ BB bracket
CN3003
CN3004
CN3005
③ Scan converter
unit (BB board)

2-2-4. GA and U Boards Removal

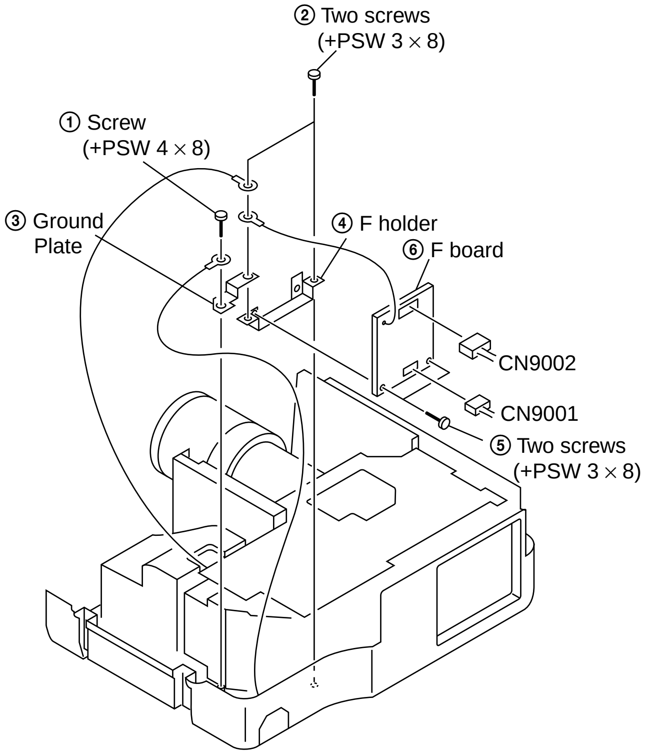

③ Three screws
(+BVTP 3 × 8)
① Two screws
(+PSW 3 × 8)
④ GA cover
⑤ GA board
CN8001
CN8002
CN8003
CN8004
② GA holder
⑥ Screw
(+PSW 3 × 8)
⑦ U board
CN4101

2-2-5. Power Supply Block Removal

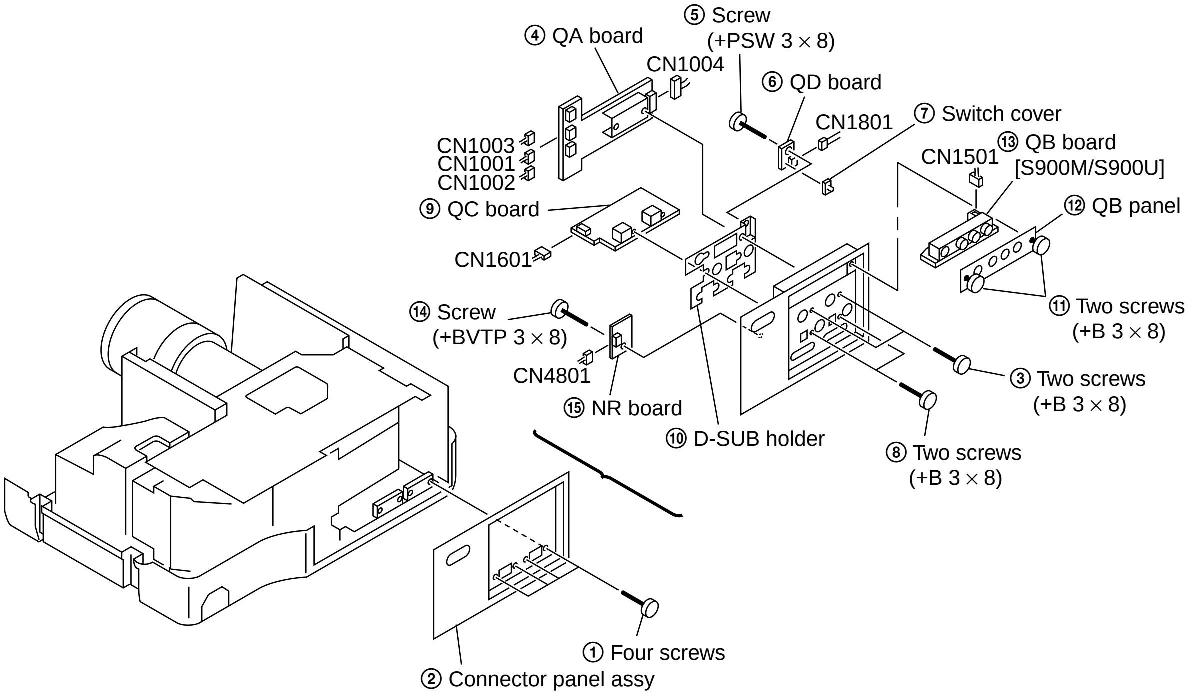

① Screw
(+BVTP 3 × 8)
⑤ Two screws
(+BVTP 3 × 8)
⑥ Power supply block
③ Two screws
(+PSW 3 × 8)
② Connector
holder (LH)
CB1
CB2
④ GC holder

2-2-6. F Board Removal

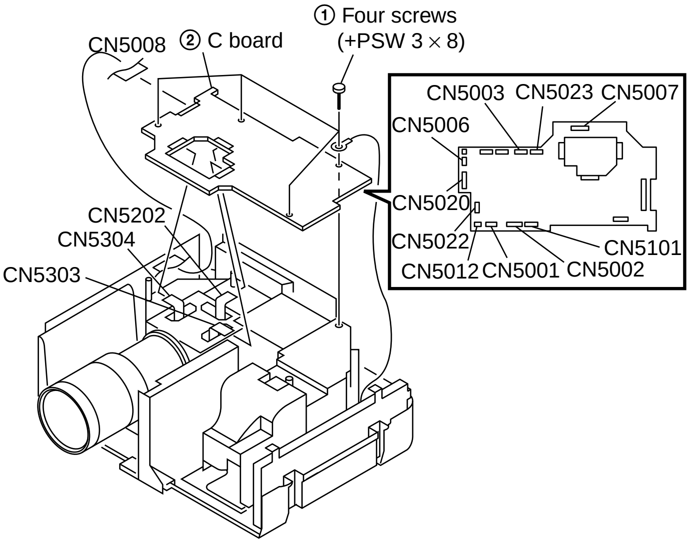
- Remove the power supply block. (Refer to 2-2-5.)


② Two screws
(+PSW 3 × 8)
① Screw
(+PSW 4 × 8)
③ Ground
Plate
④ F holder
⑥ F board
CN9002
CN9001
⑤ Two screws
(+PSW 3 × 8)

2-2-7. Connector Panel Assy, QA, QB, QC, QD and NR Boards Removal

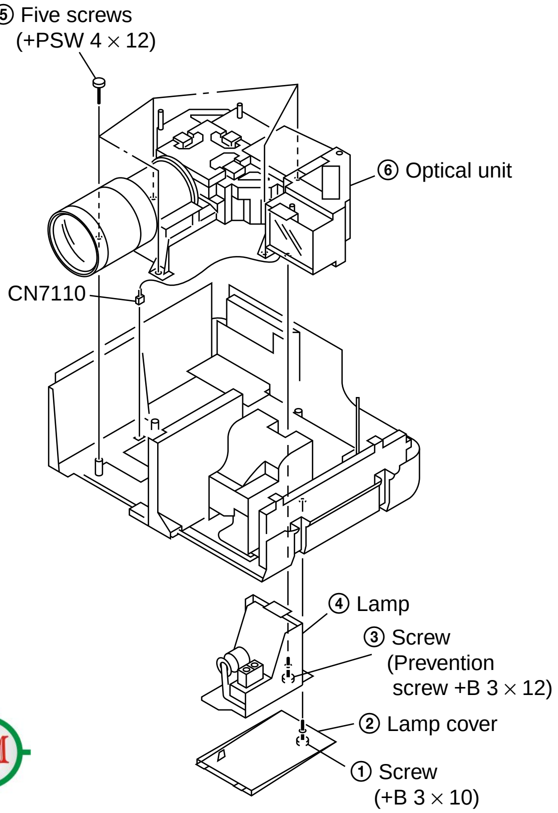

⑤ Screw
(+PSW 3 × 8)
④ QA board
CN1004
⑥ QD board
CN1801
⑦ Switch cover
CN1003
CN1001
CN1002
⑬ QB board
[S900M/S900U]
CN1501
⑨ QC board
⑫ QB panel
CN1601
⑪ Two screws
(+B 3 × 8)
⑭ Screw
(+BVTP 3 × 8)
CN4801
③ Two screws
(+B 3 × 8)
⑮ NR board
⑩ D-SUB holder
⑧ Two screws
(+B 3 × 8)
① Four screws
② Connector panel assy

2-2-8. C Board Removal


① Four screws
(+PSW 3 × 8)
CN5008
② C board
CN5003
CN5023
CN5007
CN5006
CN5020
CN5022
CN5101
CN5012
CN5001
CN5002
CN5202
CN5304
CN5303

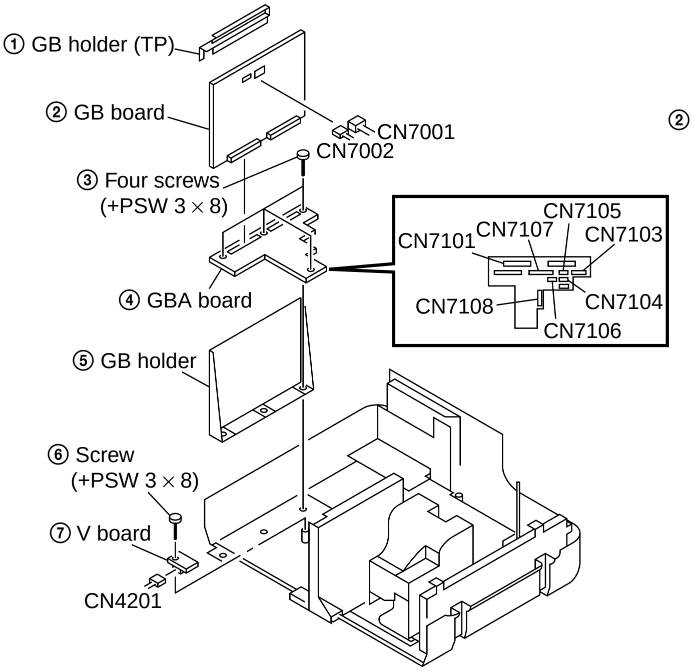
2-2-9. Optical Unit Removal

- Remove the C board (Refer to 2-2-8.)


⑤ Five screws
(+PSW 4 × 12)
⑥ Optical unit
CN7110
④ Lamp
③ Screw
(Prevention
screw +B 3 × 12)
② Lamp cover
① Screw
(+B 3 × 10)

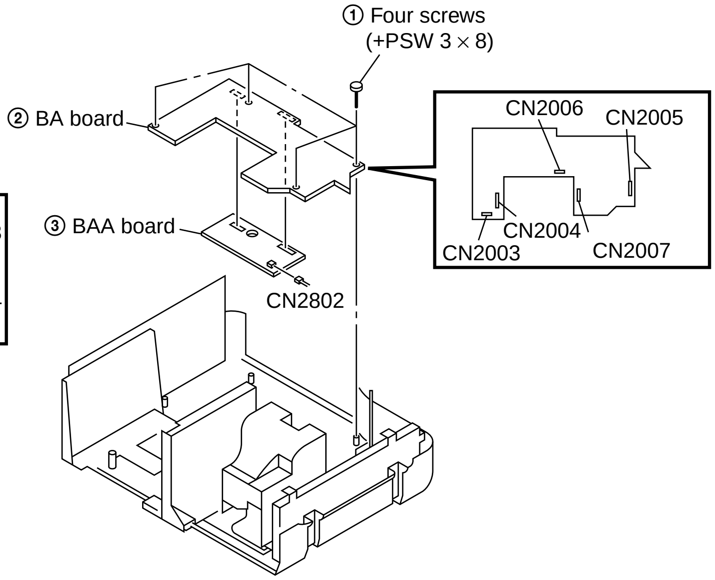
2-2-10. GB, GBA and V Boards Removal

- Remove the scan converter unit (Refer to 2-2-3.)
- Remove the C board (Refer to 2-2-8.)
- Remove the optical unit (Refer to 2-2-9.)

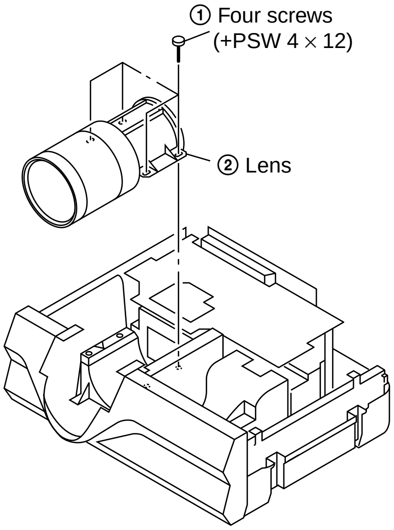

① GB holder (TP)
② GB board
CN7001
CN7002
③ Four screws
(+PSW 3 × 8)
CN7105
CN7101
CN7107
CN7103
④ GBA board
CN7108
CN7104
CN7106
⑤ GB holder
⑥ Screw
(+PSW 3 × 8)
⑦ V board
CN4201

2-2-11. BA and BAA Boards Removal

- Remove the connector panel assy (Refer to 2-2-7.)
- Remove the C board (Refer to 2-2-8.)
- Remove the optical unit (Refer to 2-2-9.)


① Four screws
(+PSW 3 × 8)
② BA board
CN2006
CN2005
③ BAA board
CN2004
CN2003
CN2007
CN2802

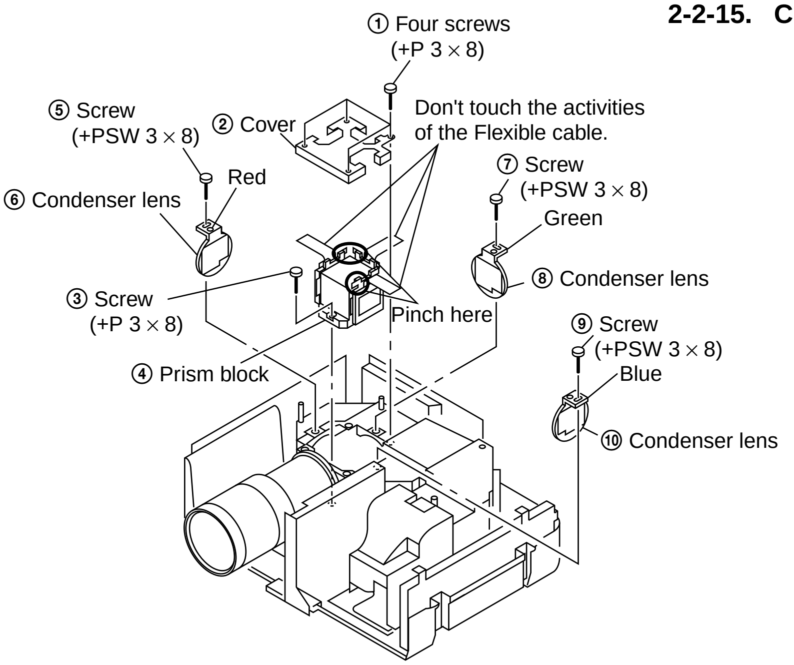
2-2-12. Lens Removal


① Four screws
(+PSW 4 × 12)
② Lens

2-2-14. Prism Block and Condenser Lens Removal

- Remove the C board (Refer to 2-2-8.)

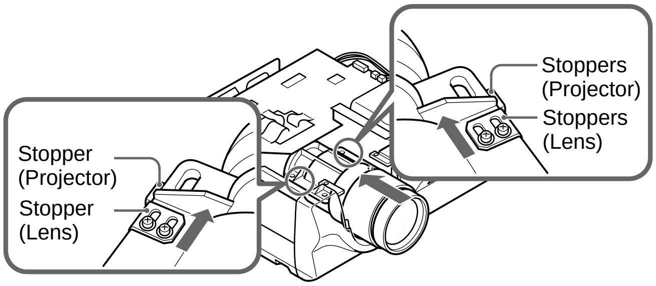
Note : Don't touch prism glass and LCD panel, especially the activities of the Flexible cable.


① Four screws
(+P 3 × 8)
⑤ Screw
(+PSW 3 × 8)
② Cover
Don't touch the activities
of the Flexible cable.
Red
⑥ Condenser lens
⑦ Screw
(+PSW 3 × 8)
Green
⑧ Condenser lens
③ Screw
(+P 3 × 8)
Pinch here
⑨ Screw
(+PSW 3 × 8)
Blue
④ Prism block
⑩ Condenser lens

2-2-13. Lens Adjustment

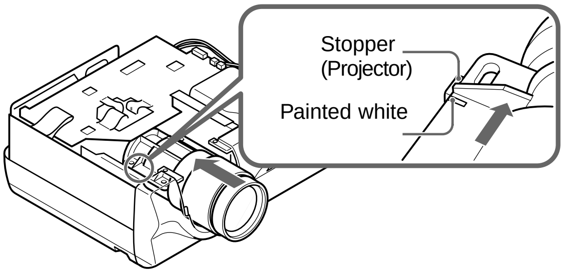
Install the lens with the lens stopper and the projector stopper met at their edges.

Notes :
- **When you install the standard lens, make sure that lens stoppers and projector stoppers are met on both sides.**
- **For ease in identification when you install the lens, make sure that the label on the lens is facing up.**

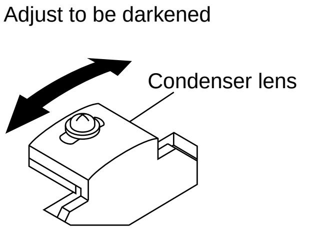

Stoppers
(Projector)
Stoppers
(Lens)
Stopper
(Projector)
Stopper
(Lens)

When the lens does not have a stopper

Align the painted white mark (☐) on the lens with the edge of the stopper in the projector.


Stopper
(Projector)
Painted white

2-2-15. Condenser Lens Adjustment


Adjust to be darkened
Condenser lens

- 0% Flat Field Input
- CONT=80, BRT=MIN

SECTION 3

ADJUSTMENTS

Enter the FACTORY MODE in the following manner:

How to enter the FACTORY MODE:

1. Check that the STATUS in the MENU is ON.
2. Turn OFF the MENU.
3. Press the keys $\boxed{\text{ENTER}}\rightarrow\boxed{\text{ENTER}}\rightarrow\boxed{\text{LEFT}}\rightarrow\boxed{\text{ENTER}}$, in this order.
4. <Do you wish to enter into the FACTORY MODE ?> appears.
5. Select YES.

3-1. VCOM ADJUSTMENT

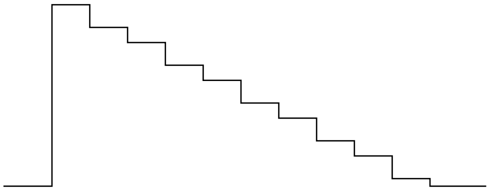
1. Input the green single-color SVGA 1H inverted signal to the INPUT A.
2. Set both CONTRAST and BRIGHT to 50.
3. The G VCOM adjustment screen of the Device Adjust appears.
4. Select the point at which the flicker is minimum.
5. Input the red and blue single-color 1H inverted signal, respectively, and adjust R VCOM and B VCOM so that the flicker will be a minimum.
6. Save the adjusted value.

3-2. SIGNAL LEVEL ADJUSTMENT

γ MODE : GRAPHICS
INPUT A : SVGA 10 steps
VIDEO : NTSC 100% COLOR BAR
Set CONTRAST to 80 and BRIGHT to 50 (RESET).
W/B : HIGH mode

3-2-1. RGB Level Adjustment

1. Adjust M52337 R, G, and B GAIN, as well as M52337 R, G, and B BIAS, so that the levels of TP5106, TP5105, and TP5104 will be within the specification.
2. Save the adjustment value.
   RGB LEVEL specifications.
   All of TP5106, TP5105, and TP5104
   0 IRE 2.00 ± 0.02 Vdc
   100 IRE 3.00 ± 0.02 Vdc



3-2-2. VIDEO Level Adjustment

1. COMPONENT VIDEO Adjustment

The Y/color difference signal of the COMPONENT input must be adjusted using the following inputs signal.

Y = 0.7 V ped-100 IRE
R-Y/B-Y = 0.7 V p-p

1. Reduce the Color to MIN.
2. Connect the 15 k Component 100% color bar signal to the INPUT A.
3. Adjust M52337 R, G and B GAIN and M52337 R, G and B BIAS respectively until signal level at TP5106, TP5105 and TP5104 satisfies the specifications.
4. Save the adjustment value.
5. Return the Color to 50.
   VIDEO LEVEL specifications
   TP5014
   0 IRE 2.00 ± 0.05 V dc
   100 IRE 2.90 ± 0.05 Vdc
   Do not touch the CXA1839 VIDEO CONT and YUV CONT.

2. COMPOSITE VIDEO Adjustment

1. Reduce the Color to MIN.
2. Connect the NTSC 100% color bar signal to the VIDEO.
3. Adjust the CXA1839 CONTRAST and BRIGHT until signal level at TP5104 satisfies the specifications.
4. Save the adjustment value.
5. Connect the PAL 100% color bar signal to the VIDEO.
6. Adjust the CXA1839 CONTRAST and BRIGHT until signal level at TP5104 satisfies the specifications.
7. Memorize the adjustment value.
8. Return the Color to 50.

VIDEO LEVEL specifications

TP5014

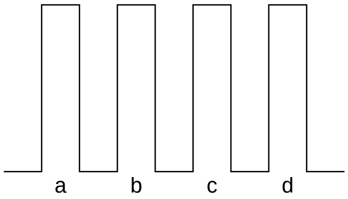
0 IRE 2.00 ± 0.05 V dc

100 IRE 2.90 ± 0.05 Vdc

3-2-3. Adjustment of VIDEO SUB HUE and COLOR

1. Set both VIDEO and INPUT A to Color to 40.
2. Set “b = c” by means of CXA1839 SUB HUE so that the level of TP5104 will be within the specification.
   Set “a = d” by means of CXA1839 VIDEO COLOR or YUV COLOR.
   Adjust the tracking of the above two items.
3. Save the adjustment value.
   Adjust NTSC, PAL, and Component, respectively.
   Adjust PAL only by VIDEO COLOR.
   Adjust the Component only by YUV COLOR.
4. Return the Color back to 50.

Specifications for VIDEO COLOR HUE adjustment:

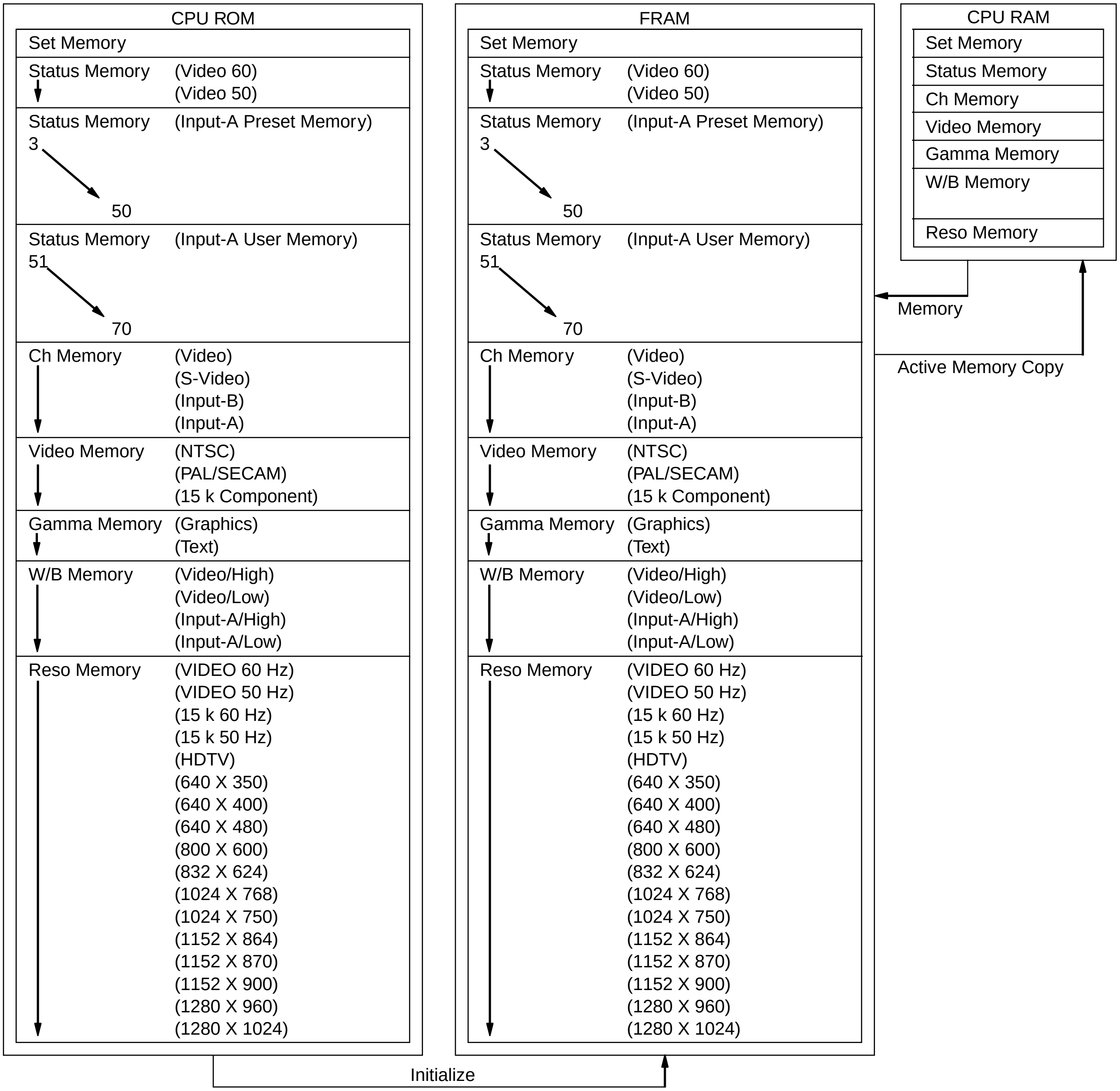


TP5104: a = b ± 10%

http://getMANUAL.com

3-3. X1000&S900 SERIES MEMORY STRUCTURE

ROM in CPU: 128 kbyte Flash Memory
RAM in CPU: 4 kbyte
External NVM Memory: 2 kbyte FRAM Memory × 2


CPU ROM
Set Memory
Status Memory (Video 60)
(Video 50)
Status Memory (Input-A Preset Memory)
3
50
Status Memory (Input-A User Memory)
51
70
Ch Memory (Video)
(S-Video)
(Input-B)
(Input-A)
Video Memory (NTSC)
(PAL/SECAM)
(15 k Component)
Gamma Memory (Graphics)
(Text)
W/B Memory (Video/High)
(Video/Low)
(Input-A/High)
(Input-A/Low)
Reso Memory (VIDEO 60 Hz)
(VIDEO 50 Hz)
(15 k 60 Hz)
(15 k 50 Hz)
(HDTV)
(640 X 350)
(640 X 400)
(640 X 480)
(800 X 600)
(832 X 624)
(1024 X 768)
(1024 X 750)
(1152 X 864)
(1152 X 870)
(1152 X 900)
(1280 X 960)
(1280 X 1024)
FRAM
Set Memory
Status Memory (Video 60)
(Video 50)
Status Memory (Input-A Preset Memory)
3
50
Status Memory (Input-A User Memory)
51
70
Ch Memory (Video)
(S-Video)
(Input-B)
(Input-A)
Video Memory (NTSC)
(PAL/SECAM)
(15 k Component)
Gamma Memory (Graphics)
(Text)
W/B Memory (Video/High)
(Video/Low)
(Input-A/High)
(Input-A/Low)
Reso Memory (VIDEO 60 Hz)
(VIDEO 50 Hz)
(15 k 60 Hz)
(15 k 50 Hz)
(HDTV)
(640 X 350)
(640 X 400)
(640 X 480)
(800 X 600)
(832 X 624)
(1024 X 768)
(1024 X 750)
(1152 X 864)
(1152 X 870)
(1152 X 900)
(1280 X 960)
(1280 X 1024)
CPU RAM
Set Memory
Status Memory
Ch Memory
Video Memory
Gamma Memory
W/B Memory
Reso Memory
Memory
Active Memory Copy
Initialize

The memory structure of X1000 & S900 Series basically follows 600 Series and is divided into the following memory blocks:

1. Set memory
2. Status memory
3. Channel memory
4. Video memory
5. Gamma memory
6. W/B memory
7. Reso Memory

The X1000 & S900 Series differs from the 600 Series as follows.

1. The memory is divided into the VIDEO system memory (including 15 k Component/HDTV) system and the RGB system memory in the “6. W/B Memory”.
2. “7. Reso Memory” is added.

<Data flow>
When the power is turned on for the first time, all data in the ROM are written into the FRAM, and status memory, as well as other memory data necessary for the present image, is selected from each memory block and developed in the internal CPU RAM.
When adjustment is made, the writing of adjusted data into the FRAM is conducted automatically or triggered by memory operation.
Like 600 Series, the factory memory, service memory, and user memory are unified into one. The data that has been set in the factory will be deleted when any adjustments or any memory operation is performed by user or during service.
However, there are two memory blocks that can be reset and will cause no problems even when data that has been adjusted in the factory is deleted. That two memory blocks are "2. Status Memory" and "3. Channel Memory".

Adjustment Data and Initial Value 1

Menu Title	Item Name	Memory Name								
		CH MEMORY				W/B MEMORY				SET MEMORY
		VIDEO	S VIDEO	INPUT-A	INPUT-B	VIDEO		RGB		
						HIGH	LOW	HIGH	LOW	
PICTURE CTRL	CONTRAST	80	80	80	80					
	BRIGHT	50	50	50	50					
	COLOR	50	50	50	50					
	HUE	50	50	50	50					
	SHARP	50	50	50	50					
	D.PICTURE	OFF	OFF	—	—					
	GAMMA MODE	—	—	GRAPHICS	GRAPHICS					
	COLOR TEMP	LOW	LOW	HIGH	HIGH					
	COLOR SYS	AUTO	AUTO	—	—					
	VOLUME	50	50	50	50					
INPUT SETTING	DOT PHASE	Each Signal		Each Signal	Each Signal					
	SIZE									
	SHIFT									
	ASPECT	4 : 3		—	—					
	SCAN CONV	—		ON	ON					
SET SETTING	STATUS									ON
	INPUT-A									RGB
	INPUT-B									RGB
	LANGUAGE									ENGLISH
	INSTALLATION									FLOOR-FRONT
	SPEAKER									ON
	POWER SAVING									OFF
	SIRCS RECEIVER									FRONT&REAR
W/B ADJUST	GAIN R					81	83	89	94	
	GAIN G					69	74	89	84	
	GAIN B					88	88	89	94	
	BIAS R					194	193	195	195	
	BIAS G					194	193	194	193	
	BIAS B					193	192	194	194	

* Each input signal (PRESET MEMORY No.) has its own initial value with respect to "DOT PHASE•SIZE H•SHIFTH/V" on the "INPUT SETTING" menu.

Adjustment Data and Initial Value 2

Device Name	Item Name	Memory Name												Remark
		SET MEMORY	SIGNAL MEMORY			GAMMA MEMORY		W/B MEMORY				STATUS MEMORY	STATUS MEMORY	
			NTSC	PAL/ SECAM	YUV			VIDEO		RGB				
						GRAPH	TEXT	HIGH	LOW	HIGH	LOW			
RGB MTRX	CONTRAST		35	36	44									
	BRIGHT		30	30	33									
	SUB HUE		10	7	7									
	SUB BRT		7	7	7									
	R-Y/R		11	11	10									fixed value
	R-Y/B		13	13	13									fixed value
	G-Y/R		6	6	6									fixed value
	G-Y/B		5	5	5									fixed value
	VIDEO CON		7	7	7									fixed value
	VIDEO COL		12	13	7									
	YUV CON		7	7	4									fixed value
	YUV COL		7	7	10									
	SUB SHP		1	1	1									fixed value
	SHPF0		1	1	1									fixed value
	PRE OVER		3	3	1									fixed value
	NR LVL		3	3	0									fixed value
	DMIC PIC	2												fixed value
	CEC LVL		3	3	2									fixed value
D.COM	VENH	0												fixed value
A.P.	LOUDNESS	0												fixed value
	BASS	2												fixed value
	BASS_ BOOST	0												fixed value
	TREBLE	0												fixed value
	TREBLE_ BOOST	0												fixed value
	FADER	10												fixed value
	FADER_SEL	0												fixed value
C.DEC	Y DELAY		0	0	0									fixed value
GK	ENB		1	1	0									fixed value
	PKG		36	36	36									fixed value
	SP		45	45	45									fixed value
	CR		20	20	20									fixed value
P.DRV	G VCOM	40												
	R VCOM	50												
	B VCOM	70												
	SCEN	149												
RGB AMP	SID LVL	72												fixed value
	OSD LVL	83												fixed value
	PRG LVL	161												fixed value
UF	RL1							50	50	50	50			fixed value
	RL2							50	50	50	50			fixed value

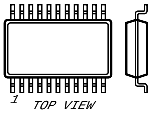
Device Name	Item Name	Memory Name												Remark
		SET MEMORY	SIGNAL MEMORY			GAMMA MEMORY		W/B MEMORY				STATUS MEMORY	STATUS MEMORY	
			NTSC	PAL/ SECAM	YUV			VIDEO		RGB				
						GRAPH	TEXT	HIGH	LOW	HIGH	LOW			
UF	RL3							50	50	50	50			fixed value
	BL1							50	50	50	50			fixed value
	BL2							50	50	50	50			fixed value
	BL3							50	50	50	50			fixed value
	RP1							255`	255	255	255			fixed value
	RP2							0	0	0	0			fixed value
	BP1							255	255	255	255			fixed value
	BP2							0	0	0	0			fixed value
GAMMA	BLK LIM					100	100							fixed value
	OSD_DOT	0												fixed value
	G-SBRT					155	163							
	R-SBRT					153	165							
	B-SBRT					148	158							
	G GAIN					106	64							
	R GAIN					135	70							
	B GAIN					121	69							
	G B2P					218	218							fixed value
	G B1P					200	200							
	G WHP					37	37							fixed value
	R B2P					218	218							fixed value
	R B1P					198	198							
	R WHP					37	37							fixed value
	B B2P					218	218							fixed value
	B B1P					199	199							
	B WHP					37	37							fixed value
	GAMMA OFF	0												
TG	SLFR	0												fixed value
	GAMMA SH2					10	10							fixed value
	GAMMA SH1					11	11							fixed value
SC	PLL CP DIV	0												fixed value
	SHOGA	0												fixed value
	Iv END MAX											Each signal		fixed value
	SYNCHRO Fv											Each signal		fixed value
	VinitEV												Each Reso.	
	VinitOd												Each Reso.	
	Sluten												Each Reso.	fixed value
	ScSlut0												Each Reso.	fixed value
	ScSlut1												Each Reso.	fixed value
	ScSlut2												Each Reso.	fixed value
	ScSlut3												Each Reso.	fixed value
	ScSlut4												Each Reso.	fixed value

Device Name	Item Name	Memory Name												Remark
		SET MEMORY	SIGNAL MEMORY			GAMMA MEMORY		W/B MEMORY				STATUS MEMORY	STATUS MEMORY	
			NTSC	PAL/ SECAM	YUV			VIDEO		RGB				
						GRAPH	TEXT	HIGH	LOW	HIGH	LOW			
SC	ScSlut5												Each Reso.	fixed value
	ScSlut6												Each Reso.	fixed value
	ScSlut7												Each Reso.	fixed value
	TempLamp	448												fixed value
	TempPanel	608												fixed value

gM

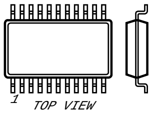
SECTION 4
SEMICONDUCTORS

74VHC240SJX
M62399FP
TC74HC541AF
TEA2025D



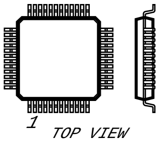
20pin SOP

BR24CF16F
LM358PS
MAX1626ESA
MM1111XFBE
MM1112XFBE
NJM2240M
SN75157PS
SN75453BPS
TA75W393FU
TC74WH74FU
TC7W00F
TC7W126FU
TC7W240FU
TL082CPS
TL431BCDR2
UPC393G2



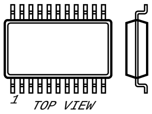
8pin SOP

CXA1839Q-T6
CXA1946AR
M62370GP-650D



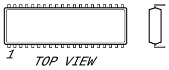
48ipn QFP

CXA1875AM
EL4332CS
MM1231XFBE
PC74HC123D-T
TC74VHC123AF
TDA4665T-T



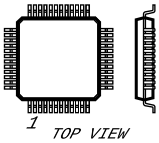
16pin SOP

CXA2016S



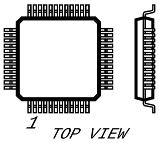
22pin DIP

CXA2111R



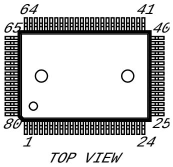
52pin QFP

CXA2112R

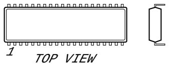


52pin QFP

CXD2024AQ

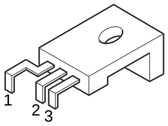

64
41
65
46
80
25
1
24
TOP VIEW

FA5331P

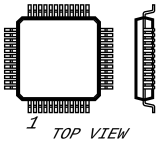


16pin DIP

GPIU28X

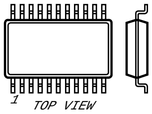


HD64F3048F16



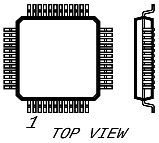
100pin QFP

RCV2



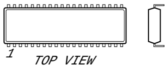
18pin SOP

ISPLSI1016E



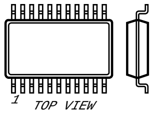
44pin QFP

M52337SP



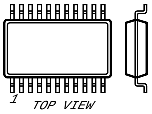
36pin DIP

M52755FP-TP



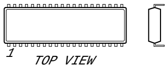
36pin SOP

MB90096PF



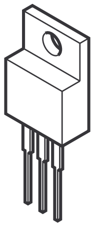
28pin SOP

MM1170BFB
UCC2801N

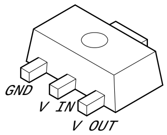


8pin DIP

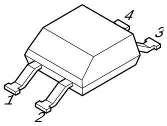
NJM7812FA
PQ05SZ1U
PQ12RF1
TOP222Y-BB



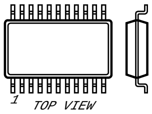
NJM79L05UA


GND
V IN
V OUT

PC123F2
PC123FY2

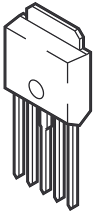


TC74HC07AF
TC74HC08FT
TC74VHCT02AFT
TC74VHCT04AFT

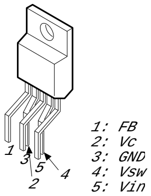


14pin SOP

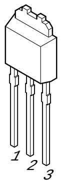
PQ12SZ5U



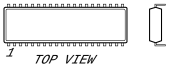
PQ20VZ5U


1
3
5
2
4
1: FB
2: Vc
3: GND
4: Vsw
5: Vin

TA7812F
TA78M09F

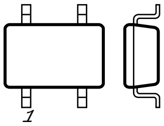


TC74HC4066AFT



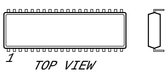
14pin DIP

TC7S04FU
TC7ST04FU
TC7W08FU



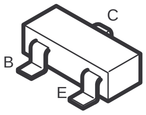
5pin CHIP

TDA9141-N2C

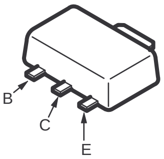


32pin DIP

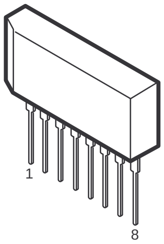
2SA1162-G
2SA1162-YG
2SB709A-QRS
2SC3545-T43
DTA144EKA-T146
DTC114EKA
DTC144EKA-T146



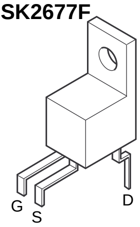
2SA1213Y



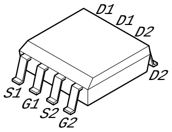
2SC2712G-TE85L



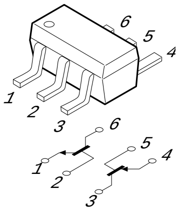
2SK2677F



SI-9430DY-T1


D1
D1
D2
D2
S1
G1
S2
G2

HN1B01FU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4
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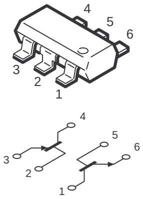
2
3
6
5
4
1
2
3

XN4601


4
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6
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1
4
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6
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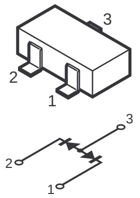
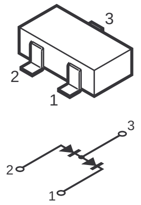
2
1

DIODE

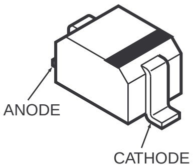
1S2836
DAP202K



MA157-TX



1SS355
RD12SB3
RB501V-40TE-17
RB5.1SB
RD3.3SB2-T1
RD9.1S-B2
RD9.1SB2-T1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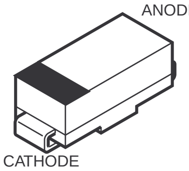
CATHODE

D1FS4A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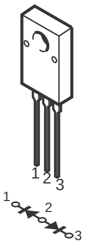
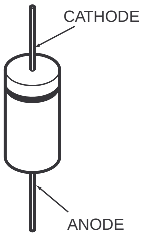
CATHODE

D10SC4MR



D2S4MFA1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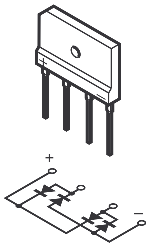
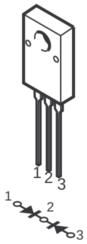
ANODE

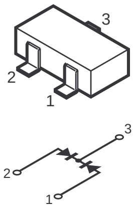
D6SB80



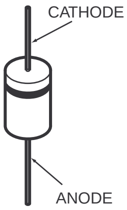
D10SC9M



DAN202K



RGP10GPKG23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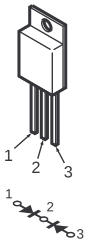
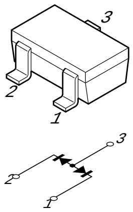
ANODE

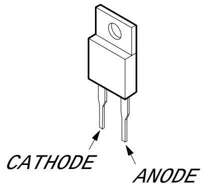
F10P06Q
FCQ20A04



FMG-G2CS



FSF10A60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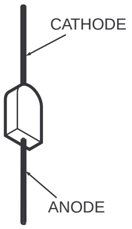
HVU359TRF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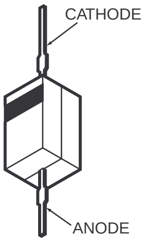
P6KE200AG23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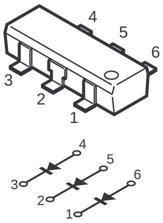
ANODE

PC357N2T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3
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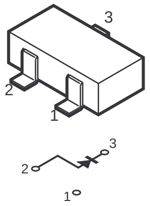
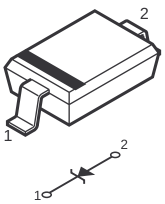
1

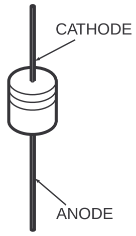
RD12M-B2
RD13M-B2



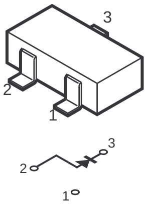
RD5.6SB2



RD6.8SB2


CATHODE
ANODE

RD7.5M-B2



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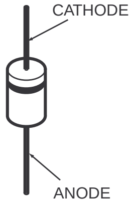
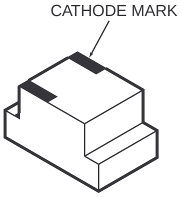

CATHODE
ANODE

SEC1201C
SEC1401C
SEC1901C


CATHODE MARK

SECTION 5
EXPLODED VIEWS

NOTE :

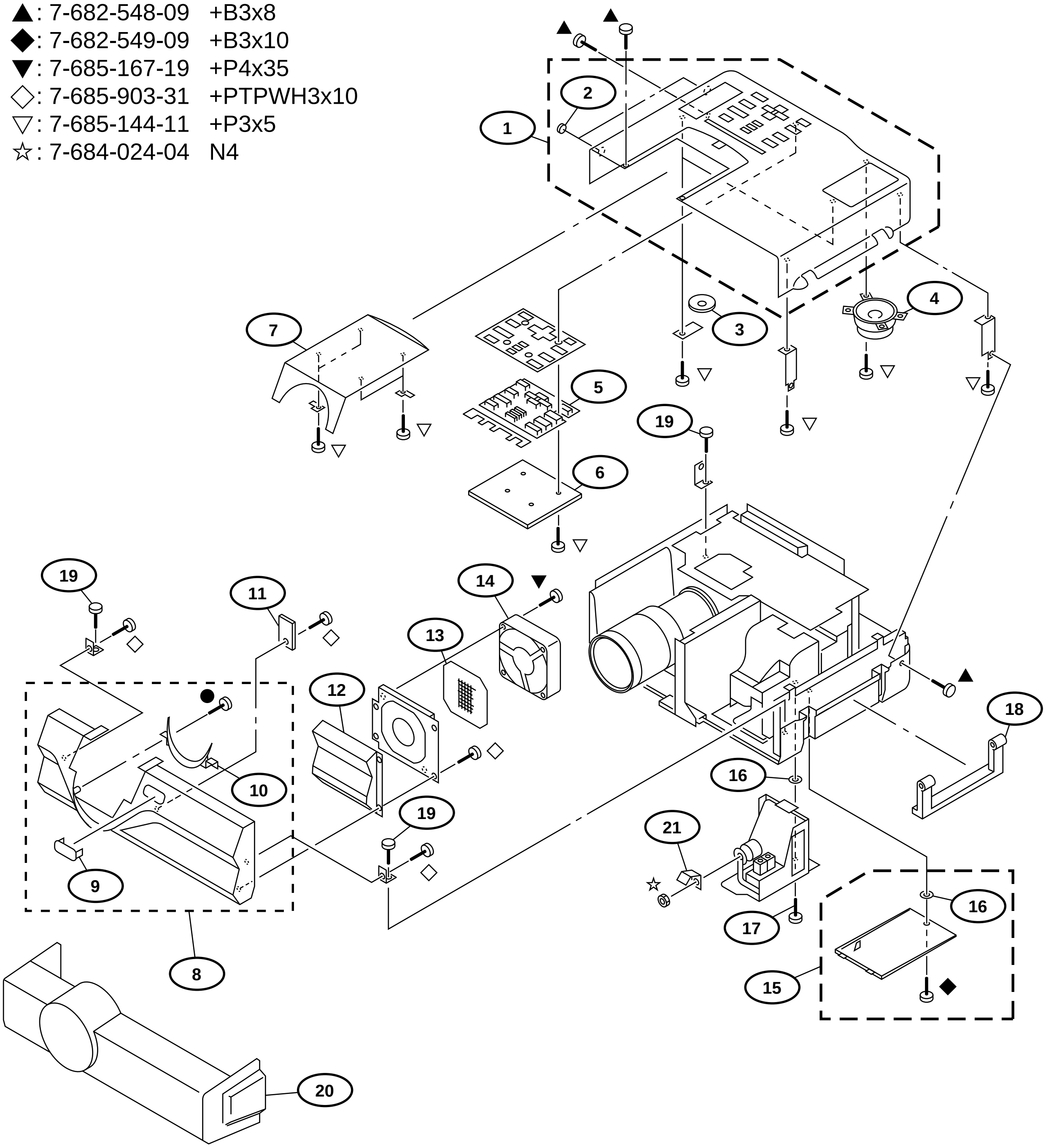
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. CABINET BLOCK

●: 7-685-646-79 +BVTP3x8
▲: 7-682-548-09 +B3x8
◆: 7-682-549-09 +B3x10
▼: 7-685-167-19 +P4x35
◇: 7-685-903-31 +PTPWH3x10
▽: 7-685-144-11 +P3x5
☆: 7-684-024-04 N4



Rf.NO.	PART NO.	DESCRIPTION	REMARK
1	* X-4035-461-1	HOOD ASSY	2
2	* 4-063-685-01	FOOT	
3	1-504-847-11	SPEAKER (2.8CM)	
4	1-505-282-11	SPEAKER (057F006)	
5	4-063-624-01	BUTTON, CONTROL	
6	* A-1375-172-A	H BOARD, COMPLETE	
7	* 4-063-632-11	COVER (TP), LENS	
8	* X-4036-437-2	PANEL ASSY, FRONT	9.10
9	* 4-063-676-01	WINDOW (FR), RM	
10	* 4-063-653-11	COVER (BT), LENS	
11	* 1-668-126-11	NF BOARD	
12	* 4-063-640-01	DUCT (EX)	
13	* 4-063-995-01	NET, FAN	
14	1-763-070-11	FAN, DC	
15	* X-4035-458-1	LAMP COVER ASSY	16
16	* 3-715-526-01	WASHER (M3)	
17	4-396-203-01	SCREW (+B M3X12), PREVENTION	
18	* 4-063-641-11	HANDLE	
19	4-382-854-01	SCREW (M3X8), P, SW (+)	
20	* X-4035-430-1	COVER ASSY, FRONT	
21	* 4-065-573-01	GUARD (LMP), LIGHTING	

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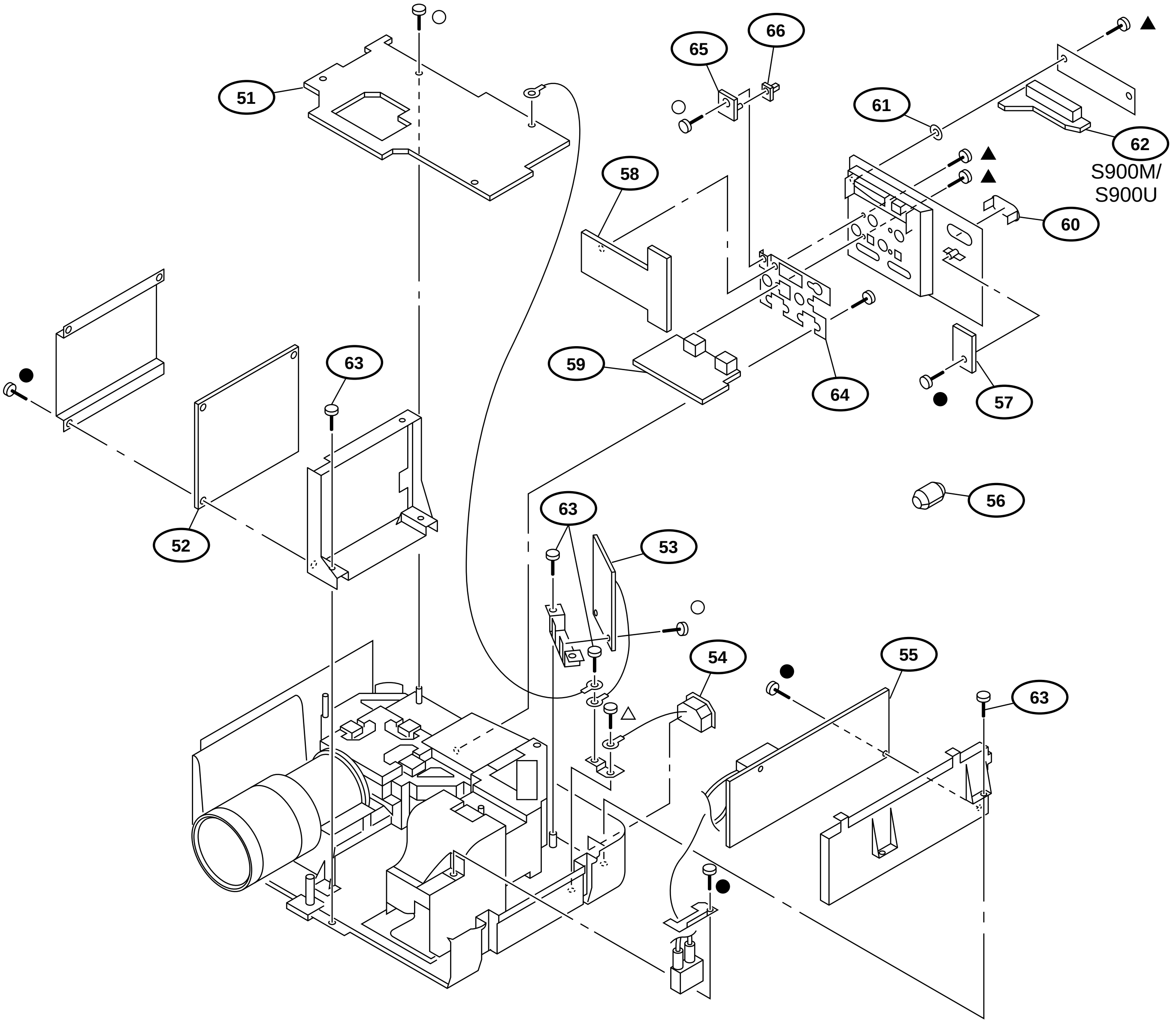
5-2. CHASSIS BLOCK

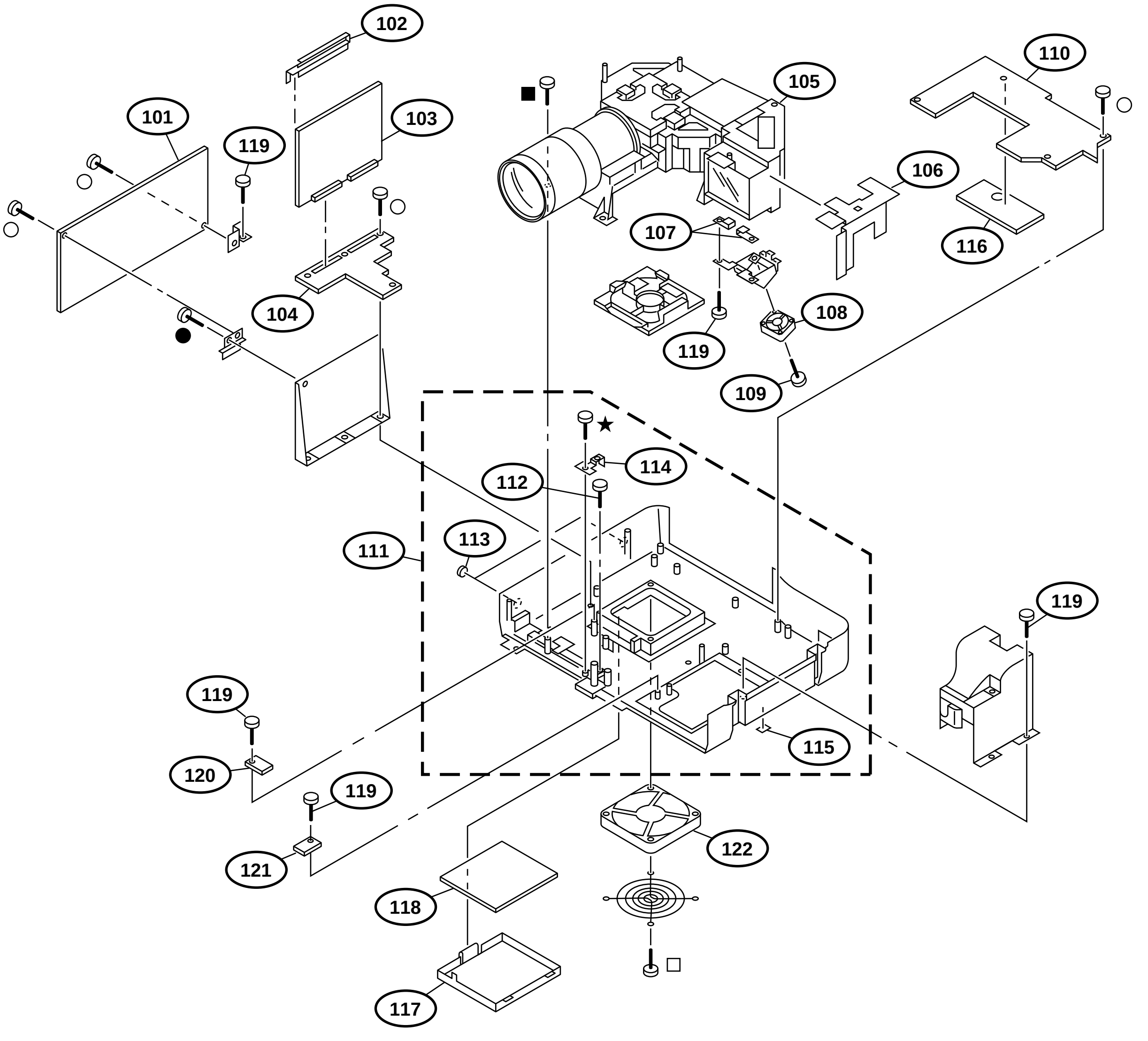
●: 7-685-646-79 +BVTP3x8
▲: 7-682-548-09 +B3x8
○: 7-682-948-01 +PSW3x8
△: 7-682-961-01 +PSW4x8



Rf.NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1335-116-A	C BOARD, COMPLETE	
52	* A-1316-340-B	GA BOARD, COMPLETE	
53	* A-1241-314-A	F BOARD, COMPLETE	
54	⚠1-526-954-11	INLET, AC	
55	A-1501-336-A	POWER BLOCK	
56	1-500-249-11	BEAD, FERRITE (CASE)	
57	* 1-668-127-11	NR BOARD	
58	* A-1275-150-D	QA BOARD, COMPLETE	
59	* A-1275-169-A	QC BOARD, COMPLETE	
60	4-063-677-01	WINDOW (RE), RM	
61	* 3-715-526-01	WASHER (M3)	
62	* 1-668-130-15	QB BOARD (S900M/S900U)	
63	4-382-854-01	SCREW (M3X8), P, SW (+)	
64	* 4-068-769-01	HOLDER, D-SUB	
65	* 1-672-792-11	QD BOARD	
66	4-068-767-01	COVER, SWITCH	

5-3. BASE BLOCK

● : 7-685-646-79 +BVTP3x8
○ : 7-682-948-01 +PSW3x8
■ : 7-682-663-09 +PSW4x12
☐ : 7-682-667-09 +PSW4x25
★ : 7-682-647-09 +PS3x6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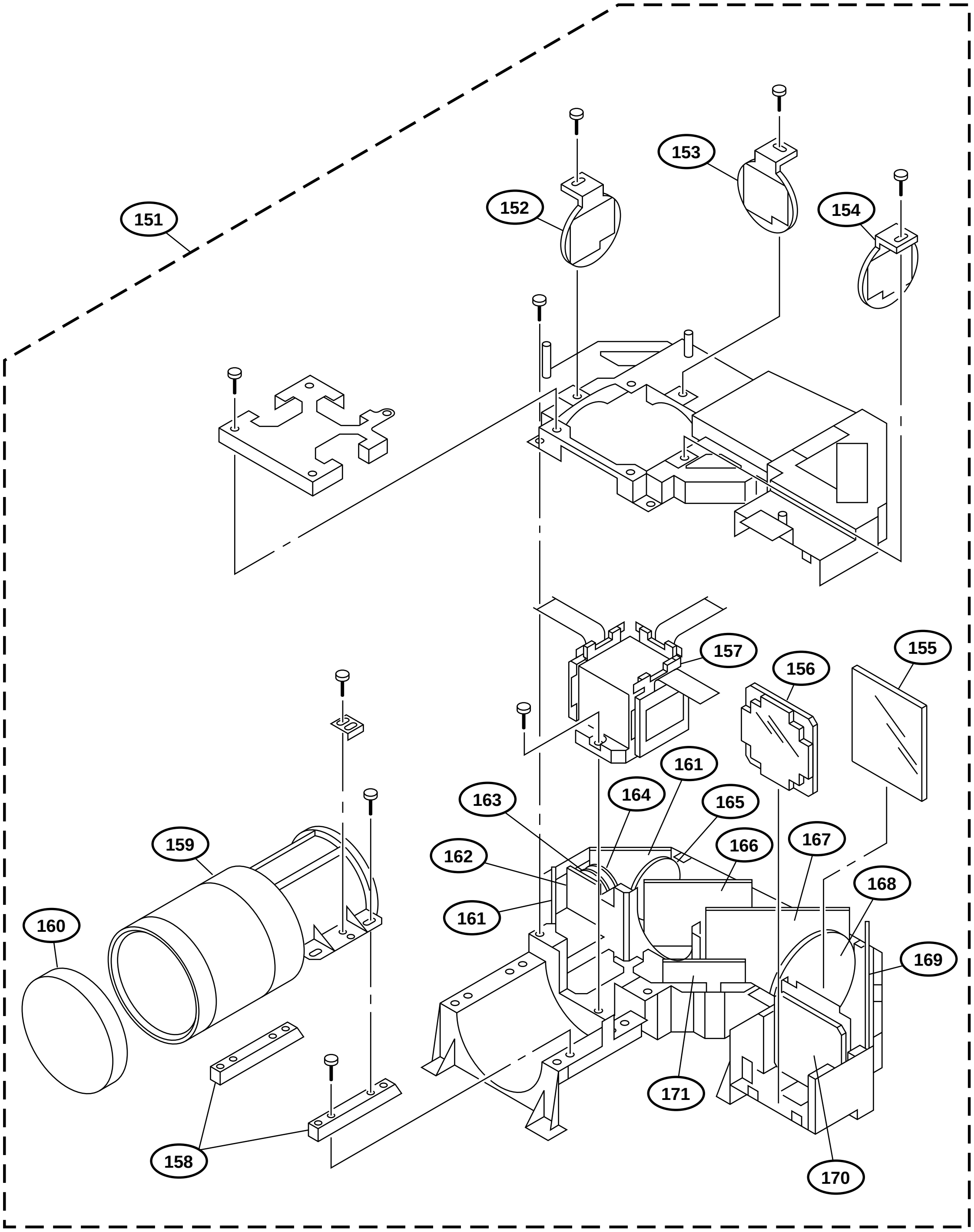
Rf.NO.	PART NO.	DESCRIPTION	REMARK
101	1-475-689-61	CONVERTER UNIT, SCAN (BB)	
102	* 4-063-633-01	HOLDER (TP), GB	
103	* A-1316-434-A	GB BOARD, COMPLETE	
104	* A-1316-369-B	GBA BOARD, COMPLETE	
105	1-758-290-11	OPTICAL UNIT	152-171
106	* 4-064-095-01	GUARD (A), LIGHTING	
107	4-064-094-01	NUT, SPRING	
108	1-763-101-11	FAN, DC	
109	4-382-854-21	SCREW (M3X14), P, SW (+)	
110	* A-1135-988-A	BA BOARD, COMPLETE	
111	* X-4036-436-2	BASE ASSY	112-115
112	4-063-994-01	MACHNE SCREW (+PWH M3X8)	
113	* 4-063-685-01	FOOT	
114	* 4-064-059-01	BRACKET, GBA	
115	* 4-064-163-01	CUSHION, HANDLE	
116	* A-1135-987-A	BAA BOARD, COMPLETE	
117	4-063-639-01	COVER, FILTER (S900M/S900U)	
117	4-063-639-11	COVER, FILTER (S900E)	
118	4-063-684-01	FILTER	
119	4-382-854-01	SCREW (M3X8), P, SW (+)	
120	* 1-668-124-11	V BOARD	
121	* 1-668-125-12	U BOARD	
122	1-763-069-11	FAN, DC	

5-4. OPTICAL UNIT BLOCK



Rf.NO.	PART NO.	DESCRIPTION	REMARK
151	1-758-290-11	OPTICAL UNIT	152-171
152	9-880-349-01	POLARIZATION PLATE (R)/ CONDENSER LENS	
153	9-880-347-01	POLARIZATION PLATE (G)/ CONDENSER LENS	
154	9-882-678-01	POLARIZATION PLATE (B)/ CONDENSER LENS	
155	9-880-346-01	PS CONVERTER	
156	9-880-344-01	FLYEYE LENS A	
157	A-1501-465-A	PRISM BLOCK ASSY	
158	9-880-355-01	SPACER, COMPLETE	
159	9-882-677-01	PROJECTION LENS	
160	9-880-361-01	LENS CAP	
161	*9-880-353-01	MIRROR B	
162	*9-880-360-01	FILTER, RED	
163	*9-880-359-01	LENS C, RELAY	
164	*9-880-358-01	LENS B, RELAY	
165	*9-880-357-01	LENS A, RELAY	
166	*9-880-351-01	DICHROIC MIRROR (G)	
167	*9-880-350-01	DICHROIC MIRROR (B)	
168	*9-880-356-01	MAIN CONDENSER LENS	
169	*9-880-352-01	MIRROR A	
170	*9-880-345-01	FLYEYE LENS B	
171	*9-880-354-01	MIRROR C	

SECTION 6
ELECTRICAL PARTS LIST

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- PF : μμF

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

BA

Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1135-988-A	BA BOARD, COMPLETE ***********************			
		<CAPACITOR>			
C2001	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2002	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2003	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2004	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2005	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2006	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2007	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2008	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2009	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2010	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2011	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2012	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2013	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2014	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2015	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2016	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C2018	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2019	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2020	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2021	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2022	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2023	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2024	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2025	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2026	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2027	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2028	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2033	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2034	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2037	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2038	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2039	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2040	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2041	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2042	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2043	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2044	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2045	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C2046	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2047	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C2048	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2049	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2050	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2051	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2052	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2053	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2054	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2055	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2056	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2057	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2058	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C2059	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2060	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2061	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2062	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2063	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2065	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2069	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2070	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2071	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2078	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2079	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2080	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2081	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2082	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2083	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2084	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2085	1-124-779-00	ELECT CHIP	10µF	20%	16V
C2086	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2087	1-124-779-00	ELECT CHIP	10µF	20%	16V
C2089	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C2090	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2091	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2092	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2093	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2094	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C2099	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2106	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2116	1-124-779-00	ELECT CHIP	10µF	20%	16V
C2117	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2118	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2119	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2120	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2121	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2122	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2123	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2125	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2126	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C2127	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2128	1-117-681-11	ELECT CHIP	100µF	20%	16V
C2129	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C2130	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2131	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2132	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C2134	1-163-089-00	CERAMIC CHIP	6PF	0.5PF	50V
C2135	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2136	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2137	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2138	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C2139	1-164-346-11	CERAMIC CHIP	1µF		16V
C2140	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2141	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2142	1-107-686-11	TANTAL. CHIP	4.7µF	20%	16V
C2143	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C2144	1-126-941-11	ELECT	470µF	20%	25V
C2145	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2146	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2147	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C2148	1-107-682-11	CERAMIC CHIP	1µF	10%	16V
C2154	1-163-237-11	CERAMIC CHIP	27PF	5%	50V

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
C2158	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2160	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2163	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2164	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2165	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2166	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2167	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2168	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2169	1-124-779-00	ELECT CHIP 10µF	20%		16V
C2170	1-126-193-11	ELECT CHIP 1µF	20%		50V
C2171	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2172	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2173	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2174	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2175	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2176	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2177	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2178	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2179	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2180	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2181	1-109-982-11	CERAMIC CHIP 1µF	10%		10V
C2182	1-109-982-11	CERAMIC CHIP 1µF	10%		10V
C2185	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2186	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2187	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2188	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2189	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2190	1-126-205-11	ELECT CHIP 47µF	20%		6.3V
C2192	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2195	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2196	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2197	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2200	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2216	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2219	1-126-603-11	ELECT CHIP 4.7µF	20%		35V
C2220	1-126-603-11	ELECT CHIP 4.7µF	20%		35V
C2221	1-126-204-11	ELECT CHIP 47µF	20%		16V
C2222	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C2223	1-163-117-00	CERAMIC CHIP 100PF	5%		50V
C2224	1-163-251-11	CERAMIC CHIP 100PF	5%		50V
C2225	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2226	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2227	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2231	1-117-154-11	ELECT 33µF	20%		16V
C2234	1-164-182-11	CERAMIC CHIP 0.0033µF	10%		50V
C2235	1-117-154-11	ELECT 33µF	20%		16V
C2301	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2302	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2303	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2304	1-128-416-11	ELECT CHIP 100µF	20%		16V
C2305	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2306	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2307	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2308	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2309	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2310	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2311	1-126-603-11	ELECT CHIP 4.7µF	20%		35V
C2312	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2313	1-163-009-11	CERAMIC CHIP 0.001µF	10%		50V
C2314	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2315	1-163-089-00	CERAMIC CHIP 6PF	0.5PF		50V
C2316	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2317	1-117-154-11	ELECT 33µF	20%		16V
C2318	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2319	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2320	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2321	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2322	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2323	1-163-021-91	CERAMIC CHIP 0.01µF	10%		50V
C2501	1-117-681-11	ELECT CHIP 100µF	20%		16V
C2502	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
C2503	1-164-004-11	CERAMIC CHIP 0.1µF	10%		25V
	<CONNECTOR>				
CN2001	1-784-828-11	CONNECTOR, D SUB			
CN2002	1-784-828-11	CONNECTOR, D SUB			
CN2003	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD)6P			
CN2004	* 1-766-383-11	PIN, CONNECTOR (1.5MM) (SMD)12P			
CN2005	* 1-766-382-11	PIN, CONNECTOR (1.5MM) (SMD)10P			
CN2006	1-573-290-21	PIN, CONNECTOR (1.5MM) (SMD)4P			
CN2007	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P			
CN2008	* 1-785-763-11	CONNECTOR,BOARD TO BOARD 18P			
CN2009	* 1-785-764-11	CONNECTOR,BOARD TO BOARD 28P			
	<DIODE>				
D2001	8-719-800-76	DIODE 1SS226			
D2002	8-719-800-76	DIODE 1SS226			
D2003	8-719-800-76	DIODE 1SS226			
D2004	8-719-800-76	DIODE 1SS226			
D2005	8-719-800-76	DIODE 1SS226			
D2006	8-719-800-76	DIODE 1SS226			
D2007	8-719-106-23	DIODE RD7.5M-B2			
D2008	8-719-800-76	DIODE 1SS226			
D2009	8-719-106-23	DIODE RD7.5M-B2			
D2010	8-719-800-76	DIODE 1SS226			
D2012	8-719-158-37	DIODE RD9.1SB2			
D2013	8-719-158-37	DIODE RD9.1SB2			
D2014	8-719-158-37	DIODE RD9.1SB2			
D2015	8-719-914-43	DIODE DAN202K			
D2016	8-719-800-76	DIODE 1SS226			
D2017	8-719-800-76	DIODE 1SS226			
D2018	8-719-158-37	DIODE RD9.1SB2			
D2301	8-719-914-43	DIODE DAN202K			
D2501	8-719-914-43	DIODE DAN202K			
	<FILTER>				
FL2001	1-239-397-11	FILTER, LOW PASS			
FL2002	1-239-397-11	FILTER, LOW PASS			
FL2003	1-239-397-11	FILTER, LOW PASS			
FL2004	1-234-089-21	FILTER, EMI (SMD)			
FL2009	1-234-089-21	FILTER, EMI (SMD)			

Rf.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC2001	8-752-072-94	IC CXA1875AM-T4	
IC2002	8-759-522-86	IC M52755FP-TP	
IC2003	8-752-073-52	IC CXA2016S	
IC2004	8-752-073-52	IC CXA2016S	
IC2005	8-759-491-93	IC EL4332CS-TE2	
IC2006	8-759-272-90	IC 74VHC240SJX	
IC2007	8-759-272-90	IC 74VHC240SJX	
IC2008	8-759-387-75	IC TC7W00F(TE12R)	
IC2012	8-759-492-19	IC MM1231XFBE	
IC2014	8-759-335-57	IC MM1112XF	
IC2015	8-759-295-47	IC TDA9141-N2C	
IC2016	8-759-565-20	IC TDA4665T/V5-118	
IC2017	8-759-335-57	IC MM1112XF	
IC2018	8-752-070-54	IC CXA1839Q-T6	
IC2022	8-752-072-94	IC CXA1875AM-T4	
IC2025	8-759-524-85	IC TC7W240FU(TE12R)	
IC2026	8-759-432-78	IC MM1111XFBE	
IC2027	8-759-186-43	IC TC74VHC123AF	
IC2301	8-752-372-78	IC CXD2024AQ	
IC2302	8-759-711-62	IC NJM2240M	
IC2501	8-759-572-04	IC TDA9178T/N1.118	
		<COIL>	
L2001	1-410-671-31	INDUCTOR 47µH	
L2011	1-414-235-22	INDUCTOR CHIP 0µH	
L2012	1-414-235-22	INDUCTOR CHIP 0µH	
L2013	1-414-235-22	INDUCTOR CHIP 0µH	
L2014	1-414-235-22	INDUCTOR CHIP 0µH	
L2015	1-412-363-21	FERRITE 0µH	
L2016	1-412-363-21	FERRITE 0µH	
L2017	1-412-363-21	FERRITE 0µH	
L2023	1-414-235-22	INDUCTOR CHIP 0µH	
L2024	1-414-235-22	INDUCTOR CHIP 0µH	
L2025	1-414-235-22	INDUCTOR CHIP 0µH	
L2026	1-414-235-22	INDUCTOR CHIP 0µH	
L2027	1-412-796-41	INDUCTOR 47µH	
L2028	1-414-235-22	INDUCTOR CHIP 0µH	
L2029	1-414-235-22	INDUCTOR CHIP 0µH	
L2301	1-414-267-11	INDUCTOR 10µH	
L2302	1-414-267-11	INDUCTOR 10µH	
L2303	1-414-267-11	INDUCTOR 10µH	
		<TRANSISTOR>	
Q2001	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2002	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2003	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2004	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2005	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2006	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2008	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2009	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2010	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2011	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2012	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2013	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2014	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2015	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2016	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2018	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2019	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2020	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2021	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2022	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2023	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2024	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2025	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2026	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2027	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2028	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q2029	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2030	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2031	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2032	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2035	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2036	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2037	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2038	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2039	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2040	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2041	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q2301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2302	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q2303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2305	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<RESISTOR>	
R2001	1-216-295-91	SHORT 0	
R2002	1-216-295-91	SHORT 0	
R2003	1-216-295-91	SHORT 0	
R2004	1-216-295-91	SHORT 0	
R2005	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R2006	1-216-039-00	RES,CHIP 390 5% 1/10W	
R2007	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R2008	1-216-039-00	RES,CHIP 390 5% 1/10W	
R2009	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2010	1-216-295-91	SHORT 0	
R2011	1-216-295-91	SHORT 0	
R2012	1-216-295-91	SHORT 0	
R2013	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2014	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2015	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R2016	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2017	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2018	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2019	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2020	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2021	1-216-025-91	RES,CHIP 100 5% 1/10W	
R2022	1-216-085-00	RES,CHIP 33K 5% 1/10W	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R2023	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R2024	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R2025	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2026	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R2027	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R2028	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2029	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2030	1-216-025-91	RES,CHIP	100	5%	1/10W
R2031	1-216-025-91	RES,CHIP	100	5%	1/10W
R2032	1-216-025-91	RES,CHIP	100	5%	1/10W
R2033	1-216-025-91	RES,CHIP	100	5%	1/10W
R2034	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2035	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2036	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2037	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2038	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2039	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2040	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2041	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2042	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2043	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2044	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2045	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2046	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2047	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R2048	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2049	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2050	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2051	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2052	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2053	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2054	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2055	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2056	1-216-025-91	RES,CHIP	100	5%	1/10W
R2057	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2058	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2059	1-216-041-00	RES,CHIP	470	5%	1/10W
R2060	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2061	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2062	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2063	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R2064	1-216-017-91	RES,CHIP	47	5%	1/10W
R2065	1-216-017-91	RES,CHIP	47	5%	1/10W
R2066	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2067	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2068	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2069	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2070	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2071	1-216-041-00	RES,CHIP	470	5%	1/10W
R2072	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R2073	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2074	1-216-041-00	RES,CHIP	470	5%	1/10W
R2075	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2076	1-216-041-00	RES,CHIP	470	5%	1/10W
R2077	1-216-041-00	RES,CHIP	470	5%	1/10W
R2078	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2079	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2080	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2081	1-216-043-91	RES,CHIP	560	5%	1/10W
R2082	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R2083	1-216-043-91	RES,CHIP	560	5%	1/10W
R2084	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R2085	1-216-043-91	RES,CHIP	560	5%	1/10W
R2086	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2087	1-216-041-00	RES,CHIP	470	5%	1/10W
R2088	1-216-025-91	RES,CHIP	100	5%	1/10W
R2089	1-216-025-91	RES,CHIP	100	5%	1/10W
R2092	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2093	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2095	1-216-025-91	RES,CHIP	100	5%	1/10W
R2096	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2097	1-216-043-91	RES,CHIP	560	5%	1/10W
R2099	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2100	1-216-025-91	RES,CHIP	100	5%	1/10W
R2101	1-216-025-91	RES,CHIP	100	5%	1/10W
R2102	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2103	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2104	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2105	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2106	1-216-025-91	RES,CHIP	100	5%	1/10W
R2107	1-216-025-91	RES,CHIP	100	5%	1/10W
R2108	1-216-295-91	SHORT	0		
R2109	1-216-295-91	SHORT	0		
R2110	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R2111	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2112	1-216-025-91	RES,CHIP	100	5%	1/10W
R2113	1-216-095-00	RES,CHIP	82K	5%	1/10W
R2114	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R2115	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2116	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2117	1-216-025-91	RES,CHIP	100	5%	1/10W
R2118	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2120	1-216-649-11	METAL CHIP	820	0.50%	1/10W
R2121	1-216-043-91	RES,CHIP	560	5%	1/10W
R2122	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2123	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R2124	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2125	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2126	1-216-025-91	RES,CHIP	100	5%	1/10W
R2127	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2128	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2129	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2130	1-216-025-91	RES,CHIP	100	5%	1/10W
R2131	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2132	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2133	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2134	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2135	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2136	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2137	1-216-025-91	RES,CHIP	100	5%	1/10W
R2138	1-216-033-00	RES,CHIP	220	5%	1/10W
R2139	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R2140	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2141	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2142	1-216-025-91	RES,CHIP	100	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R2143	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2144	1-216-295-91	SHORT 0			
R2145	1-216-295-91	SHORT 0			
R2146	1-216-083-00	RES,CHIP	27K	5%	1/10W
R2147	1-216-025-91	RES,CHIP	100	5%	1/10W
R2148	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2149	1-216-025-91	RES,CHIP	100	5%	1/10W
R2151	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2158	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2159	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2167	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2168	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2186	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R2187	1-216-641-11	METAL CHIP	390	0.50%	1/10W
R2188	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2189	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2190	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2191	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2192	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2193	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2194	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R2195	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R2196	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2197	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2198	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2199	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2200	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2201	1-216-025-91	RES,CHIP	100	5%	1/10W
R2202	1-216-025-91	RES,CHIP	100	5%	1/10W
R2204	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R2205	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R2206	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2207	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R2208	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R2209	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2210	1-216-025-91	RES,CHIP	100	5%	1/10W
R2211	1-216-025-91	RES,CHIP	100	5%	1/10W
R2212	1-216-295-91	SHORT 0			
R2213	1-216-295-91	SHORT 0			
R2214	1-216-295-91	SHORT 0			
R2216	1-216-295-91	SHORT 0			
R2217	1-216-295-91	SHORT 0			
R2218	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R2219	1-216-035-00	RES,CHIP	270	5%	1/10W
R2220	1-216-035-00	RES,CHIP	270	5%	1/10W
R2221	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2222	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2223	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2224	1-216-017-91	RES,CHIP	47	5%	1/10W
R2225	1-216-017-91	RES,CHIP	47	5%	1/10W
R2226	1-216-017-91	RES,CHIP	47	5%	1/10W
R2227	1-216-017-91	RES,CHIP	47	5%	1/10W
R2228	1-216-017-91	RES,CHIP	47	5%	1/10W
R2229	1-216-017-91	RES,CHIP	47	5%	1/10W
R2233	1-216-025-91	RES,CHIP	100	5%	1/10W
R2234	1-216-025-91	RES,CHIP	100	5%	1/10W
R2235	1-216-025-91	RES,CHIP	100	5%	1/10W
R2236	1-216-025-91	RES,CHIP	100	5%	1/10W
R2237	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R2238	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R2239	1-216-295-91	SHORT 0			
R2241	1-216-001-00	RES,CHIP	10	5%	1/10W
R2242	1-247-807-31	CARBON	100	5%	1/4W
R2243	1-247-807-31	CARBON	100	5%	1/4W
R2301	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2302	1-216-025-91	RES,CHIP	100	5%	1/10W
R2303	1-216-025-91	RES,CHIP	100	5%	1/10W
R2304	1-216-025-91	RES,CHIP	100	5%	1/10W
R2306	1-216-033-00	RES,CHIP	220	5%	1/10W
R2307	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2308	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2309	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R2310	1-216-037-00	RES,CHIP	330	5%	1/10W
R2311	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2312	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2313	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2314	1-216-025-91	RES,CHIP	100	5%	1/10W
R2315	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R2316	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R2317	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R2318	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R2319	1-216-025-91	RES,CHIP	100	5%	1/10W
R2320	1-216-041-00	RES,CHIP	470	5%	1/10W
R2321	1-216-025-91	RES,CHIP	100	5%	1/10W
R2406	1-216-625-11	METAL CHIP	82	0.50%	1/10W
R2407	1-216-625-11	METAL CHIP	82	0.50%	1/10W
R2408	1-216-625-11	METAL CHIP	82	0.50%	1/10W
R2501	1-216-025-91	RES,CHIP	100	5%	1/10W
R2502	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2503	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2504	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2505	1-216-025-91	RES,CHIP	100	5%	1/10W
R2506	1-216-025-91	RES,CHIP	100	5%	1/10W

<THERMISTOR>

Rf.NO.	PART NO.	DESCRIPTION
TH2001	1-809-020-11	THERMISTOR
TH2002	1-809-020-11	THERMISTOR

<CRYSTAL>

Rf.NO.	PART NO.	DESCRIPTION
X2001	1-579-973-11	VIBRATOR, CRYSTAL (3.575611MHz)
X2002	1-760-191-11	VIBRATOR, CRYSTAL (3.579545MHz)
X2003	1-760-191-11	VIBRATOR, CRYSTAL (4.433619MHz)

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* A-1135-987-A BAA BOARD, COMPLETE
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<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C2801	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2802	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2803	1-128-453-21	ELECT CHIP	47µF	20%	6.3V

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BAA

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C2804	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C2805	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2806	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2807	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C2808	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C2809	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C2810	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2811	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2812	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C2813	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C2814	1-128-453-21	ELECT CHIP	47µF	20%	6.3V
C2815	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2816	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2817	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2818	1-163-217-11	CERAMIC CHIP	1PF	0.25PF	50V
C2819	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2820	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2821	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2822	1-128-013-11	ELECT CHIP	1µF	20%	50V
C2823	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2824	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2825	1-126-204-11	ELECT CHIP	47µF	20%	16V
C2826	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2827	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2828	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2829	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2830	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C2831	1-128-004-11	ELECT CHIP	10µF	20%	16V
C2832	1-128-013-11	ELECT CHIP	1µF	20%	50V
C2833	1-126-204-11	ELECT CHIP	47µF	20%	16V
	<CONNECTOR>				
CN2801	* 1-785-237-21	CONNECTOR, BOARD TO BOARD 28P			
CN2802	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P			
CN2803	* 1-785-762-21	CONNECTOR, BOARD TO BOARD 18P			
	<DIODE>				
D2801	8-719-914-43	DIODE DAN202K			
D2802	8-719-800-76	DIODE 1SS226			
D2803	8-719-800-76	DIODE 1SS226			
D2804	8-719-800-76	DIODE 1SS226			
D2805	8-719-158-37	DIODE RD9.1SB2			
D2806	8-719-800-76	DIODE 1SS226			
D2807	8-719-914-43	DIODE DAN202K			
D2808	8-719-800-76	DIODE 1SS226			
D2809	8-719-914-43	DIODE DAN202K			
D2810	8-719-800-76	DIODE 1SS226			
D2811	8-719-800-76	DIODE 1SS226			
D2812	8-719-800-76	DIODE 1SS226			
D2813	8-719-800-76	DIODE 1SS226			
D2814	8-719-800-76	DIODE 1SS226			
	<IC>				
IC2801	8-759-542-11	IC MAX4223ESA-TG06			
IC2802	8-759-542-11	IC MAX4223ESA-TG06			
IC2803	8-759-542-11	IC MAX4223ESA-TG06			
IC2805	8-759-090-19	IC SN75453BPS			
IC2806	8-759-092-82	IC SN75157PS-ELL2000			
IC2807	8-759-981-48	IC TL082M			
	<COIL>				
L2801	1-412-058-11	INDUCTOR CHIP		10µH	
L2802	1-412-058-11	INDUCTOR CHIP		10µH	
L2803	1-412-058-11	INDUCTOR CHIP		10µH	
	<TRANSISTOR>				
Q2801	8-729-900-53	TRANSISTOR DTC114EK			
Q2802	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q2803	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q2804	8-729-216-22	TRANSISTOR 2SA1162-G			
Q2805	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q2806	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q2807	8-729-216-22	TRANSISTOR 2SA1162-G			
Q2808	8-729-900-53	TRANSISTOR DTC114EK			
Q2809	8-729-900-53	TRANSISTOR DTC114EK			
	<RESISTOR>				
R2801	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2802	1-216-001-00	RES,CHIP	10	5%	1/10W
R2803	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2804	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2805	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2806	1-216-295-91	SHORT	0		
R2807	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2808	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2809	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2810	1-216-001-00	RES,CHIP	10	5%	1/10W
R2811	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2812	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2813	1-216-295-91	SHORT	0		
R2814	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2815	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2816	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2817	1-216-001-00	RES,CHIP	10	5%	1/10W
R2818	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R2819	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2820	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2821	1-216-295-91	SHORT	0		
R2822	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R2824	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2825	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2826	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2827	1-216-025-91	RES,CHIP	100	5%	1/10W
R2828	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2830	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2831	1-216-041-00	RES,CHIP	470	5%	1/10W
R2832	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2833	1-216-001-00	RES,CHIP	10	5%	1/10W
R2834	1-216-186-00	RES,CHIP	330	5%	1/8W
R2835	1-216-186-00	RES,CHIP	330	5%	1/8W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R2836	1-216-017-91	RES,CHIP	47	5%	1/10W
R2837	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2838	1-216-013-00	RES,CHIP	33	5%	1/10W
R2839	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2840	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2841	1-216-017-91	RES,CHIP	47	5%	1/10W
R2842	1-216-025-91	RES,CHIP	100	5%	1/10W
R2843	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2845	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2846	1-216-013-00	RES,CHIP	33	5%	1/10W
R2847	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2848	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2850	1-216-186-00	RES,CHIP	330	5%	1/8W
R2851	1-216-186-00	RES,CHIP	330	5%	1/8W

<RELAY>

Rf.NO.	PART NO.	DESCRIPTION
RY2801	1-755-297-21	RELAY
RY2802	1-755-297-21	RELAY
RY2803	1-755-297-21	RELAY

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1-475-689-61 BB BOARD, COMPLETE
(CONVERTER UNIT, SCAN (BB))
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<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C3006	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3008	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3009	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3010	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3011	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3012	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3018	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3020	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3021	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3023	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3024	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3025	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3026	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3027	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3028	1-110-501-11	CERAMIC CHIP	0.33µF	10%	16V
C3029	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3030	1-164-730-11	CERAMIC CHIP	0.0012µF	10%	50V
C3031	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3032	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3033	1-107-498-11	FILM	0.0022µF	2%	50V
C3034	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3035	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3036	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3044	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3046	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3047	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3049	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3051	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3052	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3053	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3054	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3056	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3057	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3059	1-107-498-11	FILM	0.0022µF	2%	50V
C3060	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3061	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3062	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3063	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3064	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3065	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3066	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3068	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3069	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3071	1-107-498-11	FILM	0.0022µF	2%	50V
C3072	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3073	1-164-505-11	CERAMIC CHIP	2.2µF		16V
C3074	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3075	1-126-204-21	ELECT	47µF		16V
C3076	1-126-204-21	ELECT	47µF		16V
C3077	1-126-204-21	ELECT	47µF		16V
C3078	1-115-156-11	CERAMIC CHIP	1µF		10V
C3079	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3080	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3081	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3084	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3086	1-115-156-11	CERAMIC CHIP	1µF		10V
C3087	1-115-156-11	CERAMIC CHIP	1µF		10V
C3088	1-115-156-11	CERAMIC CHIP	1µF		10V
C3089	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3090	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3091	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3092	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C3093	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
C3094	1-126-204-21	ELECT	47µF		16V
C3095	1-126-204-21	ELECT	47µF		16V
C3096	1-126-204-21	ELECT	47µF		16V
C3098	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3099	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3100	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3101	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3103	1-115-156-11	CERAMIC CHIP	1µF		10V
C3104	1-115-156-11	CERAMIC CHIP	1µF		10V
C3105	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3106	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3107	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3109	1-126-204-21	ELECT	47µF		16V
C3110	1-126-204-21	ELECT	47µF		16V
C3114	1-115-156-11	CERAMIC CHIP	1µF		10V
C3115	1-115-156-11	CERAMIC CHIP	1µF		10V
C3116	1-115-156-11	CERAMIC CHIP	1µF		10V
C3117	1-115-156-11	CERAMIC CHIP	1µF		10V
C3118	1-115-156-11	CERAMIC CHIP	1µF		10V
C3119	1-115-156-11	CERAMIC CHIP	1µF		10V
C3121	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3122	1-164-156-11	CERAMIC CHIP	0.1µF		25V
C3123	1-115-156-11	CERAMIC CHIP	1µF		10V

Rf.NO.	PART NO.	DESCRIPTION	REMARK
C3124	1-115-156-11	CERAMIC CHIP 1µF	10V
C3125	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3126	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3128	1-126-204-21	ELECT 1µF	16V
C3129	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3130	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3131	1-115-156-11	CERAMIC CHIP 1µF	10V
C3132	1-115-156-11	CERAMIC CHIP 1µF	10V
C3133	1-115-156-11	CERAMIC CHIP 1µF	10V
C3134	1-115-156-11	CERAMIC CHIP 1µF	10V
C3135	1-115-156-11	CERAMIC CHIP 1µF	10V
C3136	1-115-156-11	CERAMIC CHIP 1µF	10V
C3137	1-115-156-11	CERAMIC CHIP 1µF	10V
C3139	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3140	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3142	1-126-204-21	ELECT 1µF	16V
C3143	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3144	1-126-394-11	ELECT CHIP 10µF	20% 16V
C3145	1-126-394-11	ELECT CHIP 10µF	20% 16V
C3147	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3148	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3151	1-115-156-11	CERAMIC CHIP 1µF	10V
C3155	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3156	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3157	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3159	1-115-156-11	CERAMIC CHIP 1µF	10V
C3160	1-115-156-11	CERAMIC CHIP 1µF	10V
C3161	1-115-156-11	CERAMIC CHIP 1µF	10V
C3162	1-115-156-11	CERAMIC CHIP 1µF	10V
C3164	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3166	1-164-156-11	CERAMIC CHIP 0.1µF	25V
C3168	1-115-156-11	CERAMIC CHIP 1µF	10V
C3170	1-115-156-11	CERAMIC CHIP 1µF	10V
C3172	1-115-156-11	CERAMIC CHIP 1µF	10V
C3173	1-115-156-11	CERAMIC CHIP 1µF	10V
C3174	1-115-156-11	CERAMIC CHIP 1µF	10V
C3184	1-164-156-11	CERAMIC CHIP 0.1µF	25V
	<CONNECTOR>		
CN3001	1-760-388-11	PIN, CONNECTOR (SMD)9P	
CN3004	1-764-007-11	PIN, CONNECTOR (SMD)12P	
CN3005	1-573-806-21	PIN, CONNECTOR (1.5MM)(SMD)6P	
	<DIODE>		
D3001	8-719-988-62	DIODE 1SS355	
D3002	8-719-988-62	DIODE 1SS355	
D3003	8-719-988-62	DIODE 1SS355	
D3004	8-719-988-62	DIODE 1SS355	
D3005	8-719-988-62	DIODE 1SS355	
D3006	8-719-988-62	DIODE 1SS355	
D3007	8-719-988-62	DIODE 1SS355	
D3012	8-719-985-01	DIODE LM385M-1.2	
	<FILTER>		
FL3001	1-239-898-22	FILTER, EMI (SMD)	
FL3002	1-239-898-22	FILTER, EMI (SMD)	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
FL3003	1-239-897-12	FILTER, EMI (SMD)	
FL3006	1-239-897-12	FILTER, EMI (SMD)	
FL3007	1-239-897-12	FILTER, EMI (SMD)	
FL3008	1-239-897-12	FILTER, EMI (SMD)	
FL3009	1-239-897-12	FILTER, EMI (SMD)	
FL3010	1-239-897-12	FILTER, EMI (SMD)	
	<IC>		
IC3003	8-759-473-74	IC SN74CBTD3306PW-E20	
IC3004	8-759-482-35	IC MC100ELT20DR2	
IC3005	8-759-524-50	IC TC74VHC541FT (EL)	
IC3006	8-759-490-41	IC TC74VHCT541AFT (EL)	
IC3007	8-759-464-43	IC CDC339NS	
IC3009	8-759-369-85	IC BT121KPJ80	
IC3011	8-752-086-22	IC CXA31060-T6	
IC3014	8-759-546-24	IC SN74ALVCH162270TE	
IC3017	8-752-071-69	IC CXA3026Q	
IC3018	8-759-183-52	IC TL431CPK-E1	
IC3020	8-752-071-69	IC CXA3026Q	
IC3021	8-759-183-52	IC TL431CPK-E1	
IC3022	8-759-546-24	IC SN74ALVCH162270TE	
IC3026	8-759-549-39	IC IP00C901	
IC3028	8-752-071-69	IC CXA3026Q	
IC3029	8-759-183-52	IC TL431CPK-E1	
IC3031	8-759-183-52	IC TL431CPK-E1	
IC3032	8-759-531-34	IC MB81G83222-010PQ-A	
IC3033	8-759-546-23	IC IP00C702	
IC3037	8-759-531-34	IC MB81G83222-010PQ-A	
IC3038	8-759-546-23	IC IP00C702	
IC3039	8-759-531-34	IC MB81G83222-010PQ-A	
IC3040	8-759-546-23	IC IP00C702	
IC3041	8-759-510-71	IC BA10358F-E2	
IC3042	8-759-475-39	IC TC74LCX74FT (EL)	
IC3045	8-759-549-98	IC TC7SH14FU	
IC3046	8-759-475-29	IC TC74LCX574F (EL)	
IC3047	8-759-475-29	IC TC74LCX574F (EL)	
	<RESISTOR>		
R3001	1-216-815-11	RES, CHIP 330	5% 1/16W
R3005	1-216-801-11	RES, CHIP 22	5% 1/16W
R3006	1-216-815-11	RES, CHIP 330	5% 1/16W
R3008	1-216-815-11	RES, CHIP 330	5% 1/16W
R3010	1-216-815-11	RES, CHIP 330	5% 1/16W
R3012	1-216-815-11	RES, CHIP 330	5% 1/16W
R3014	1-216-815-11	RES, CHIP 330	5% 1/16W
R3017	1-218-697-11	METAL CHIP 1.6K	0.50%1/16W
R3018	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R3019	1-216-017-91	RES, CHIP 47	5% 1/10W
R3020	1-216-801-11	RES, CHIP 22	5% 1/16W
R3022	1-216-648-11	METAL CHIP 750	0.50%1/10W
R3023	1-216-648-11	METAL CHIP 750	0.50%1/10W
R3024	1-216-624-11	METAL CHIP 75	0.50%1/10W
R3026	1-216-017-91	RES, CHIP 47	5% 1/10W
R3028	1-216-648-11	METAL CHIP 750	0.50%1/10W
R3029	1-216-648-11	METAL CHIP 750	0.50%1/10W
R3030	1-216-624-11	METAL CHIP 75	0.50%1/10W
R3032	1-216-801-11	RES, CHIP 22	5% 1/16W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R3036	1-216-017-91	RES, CHIP	47	5%	1/10W
R3038	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R3039	1-216-648-11	METAL CHIP	750	0.50%	1/10W
R3040	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3043	1-216-801-11	RES, CHIP	22	5%	1/16W
R3044	1-220-242-11	RES, CHIP	22	5%	1/4W
R3045	1-218-707-11	METAL CHIP	4.3K	0.50%	1/16W
R3046	1-216-651-11	METAL CHIP	1K	0.50%	1/16W
R3047	1-216-801-11	RES, CHIP	22	5%	1/16W
R3048	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3049	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3052	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3053	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3054	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R3055	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3056	1-218-648-11	METAL, CHIP	15	0.50%	1/16W
R3061	1-216-017-91	RES, CHIP	47	5%	1/10W
R3062	1-216-017-91	RES, CHIP	47	5%	1/10W
R3063	1-216-017-91	RES, CHIP	47	5%	1/10W
R3064	1-216-017-91	RES, CHIP	47	5%	1/10W
R3065	1-216-017-91	RES, CHIP	47	5%	1/10W
R3066	1-216-801-11	RES, CHIP	22	5%	1/16W
R3067	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3068	1-216-845-11	RES, CHIP	100K	5%	1/16W
R3069	1-216-809-11	RES, CHIP	100	5%	1/16W
R3070	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R3076	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R3080	1-216-829-11	RES, CHIP	4.7K	5%	1/16W
R3082	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3085	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3086	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3087	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3093	1-216-821-11	RES, CHIP	1K	5%	1/16W
R3108	1-216-809-11	RES, CHIP	100	5%	1/16W
R3109	1-218-700-11	METAL CHIP	2.2K	0.50%	1/16W
R3110	1-218-699-11	METAL CHIP	2K	0.05%	1/16W
R3113	1-218-692-11	METAL CHIP	1K	0.05%	1/16W
R3114	1-216-825-11	RES, CHIP	2.2K	5%	1/16W
R3115	1-216-021-00	RES, CHIP	68	5%	1/10W
R3116	1-216-017-91	RES, CHIP	47	5%	1/10W
R3117	1-216-017-91	RES, CHIP	47	5%	1/10W
R3122	1-216-017-91	RES, CHIP	47	5%	1/10W
R3123	1-216-017-91	RES, CHIP	47	5%	1/10W
R3124	1-216-809-11	RES, CHIP	100	5%	1/16W
R3126	1-216-017-91	RES, CHIP	47	5%	1/10W
R3130	1-216-833-11	RES, CHIP	10K	5%	1/16W
R3133	1-216-017-91	RES, CHIP	47	5%	1/10W
R3134	1-216-295-91	CONDUCTOR, CHIP		0	
R3135	1-216-295-91	CONDUCTOR, CHIP		0	
R3136	1-216-295-91	CONDUCTOR, CHIP		0	
R3138	1-216-864-11	CONDUCTOR, CHIP		0	
R3139	1-216-864-11	CONDUCTOR, CHIP		0	
R3143	1-216-864-11	CONDUCTOR, CHIP		0	
R3144	1-216-864-11	CONDUCTOR, CHIP		0	
R3146	1-216-864-11	CONDUCTOR, CHIP		0	
R3147	1-216-864-11	CONDUCTOR, CHIP		0	
R3151	1-216-864-11	CONDUCTOR, CHIP		0	
R3156	1-216-864-11	CONDUCTOR, CHIP		0	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R3158	1-219-570-11	RES, CHIP	10M	5%	1/16W
R3159	1-219-570-11	RES, CHIP	10M	5%	1/16W
R3160	1-219-570-11	RES, CHIP	10M	5%	1/16W
R3166	1-216-864-11	CONDUCTOR, CHIP		0	

<RESISTOR BLOCK>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
RA3005	1-233-576-11	RES, CHIP NETWORK		100	
RA3006	1-233-576-11	RES, CHIP NETWORK		100	
RA3009	1-233-576-11	RES, CHIP NETWORK		100	
RA3010	1-233-576-11	RES, CHIP NETWORK		100	
RA3011	1-233-576-11	RES, CHIP NETWORK		100	
RA3012	1-233-576-11	RES, CHIP NETWORK		100	
RA3019	1-233-415-21	RES, CHIP NETWORK		10K	
RA3020	1-233-415-21	RES, CHIP NETWORK		10K	
RA3021	1-233-576-11	RES, CHIP NETWORK		100	
RA3022	1-233-576-11	RES, CHIP NETWORK		100	
RA3023	1-233-576-11	RES, CHIP NETWORK		100	
RA3024	1-233-576-11	RES, CHIP NETWORK		100	
RA3033	1-233-576-11	RES, CHIP NETWORK		100	
RA3034	1-233-576-11	RES, CHIP NETWORK		100	
RA3035	1-233-576-11	RES, CHIP NETWORK		100	
RA3040	1-233-576-11	RES, CHIP NETWORK		100	
RA3041	1-233-415-21	RES, CHIP NETWORK		10K	
RA3042	1-233-415-21	RES, CHIP NETWORK		10K	
RA3043	1-233-415-21	RES, CHIP NETWORK		10K	
RA3044	1-233-415-21	RES, CHIP NETWORK		10K	
RA3045	1-233-415-21	RES, CHIP NETWORK		10K	
RA3046	1-233-415-21	RES, CHIP NETWORK		10K	

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* A-1335-116-A C BOARD, COMPLETE
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<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C5001	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5002	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5003	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C5004	1-117-681-11	ELECT CHIP	100μF	20%	16V
C5005	1-117-681-11	ELECT CHIP	100μF	20%	16V
C5006	1-126-204-11	ELECT CHIP	47μF	20%	16V
C5008	1-128-400-11	ELECT CHIP	47μF	20%	25V
C5009	1-128-400-11	ELECT CHIP	47μF	20%	25V
C5010	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C5011	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5012	1-126-204-11	ELECT CHIP	47μF	20%	16V
C5013	1-128-400-11	ELECT CHIP	47μF	20%	25V
C5014	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5015	1-126-204-11	ELECT CHIP	47μF	20%	16V
C5016	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5017	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C5018	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5019	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C5020	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C5021	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V

Rf.NO.	PART NO.	DESCRIPTION				REMARK
C5022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C5023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C5024	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5027	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5028	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5029	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5031	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5032	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5033	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5034	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5035	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5037	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5038	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5040	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5101	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5102	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5103	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5105	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5106	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C5108	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5109	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5110	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5111	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5112	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5113	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5114	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5115	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5116	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5117	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5118	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5119	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5121	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5123	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5124	1-109-994-11	CERAMIC CHIP	2.2µF	10%	10V	
C5125	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5126	1-109-994-11	CERAMIC CHIP	2.2µF	10%	10V	
C5127	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5128	1-109-994-11	CERAMIC CHIP	2.2µF	10%	10V	
C5129	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5130	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5131	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5133	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5134	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5135	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5136	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5137	1-164-346-11	CERAMIC CHIP	1µF		16V	
C5138	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5139	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5140	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5141	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5142	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5143	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5144	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5145	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5148	1-164-346-11	CERAMIC CHIP	1µF		16V	
C5156	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5157	1-164-346-11	CERAMIC CHIP	1µF		16V	
C5161	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	

Rf.NO.	PART NO.	DESCRIPTION				REMARK
C5169	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5170	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5172	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5201	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5202	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5217	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5218	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5222	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5223	1-128-400-11	ELECT CHIP	47µF	20%	25V	
C5227	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5228	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C5229	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5301	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5302	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5306	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5307	1-128-400-11	ELECT CHIP	47µF	20%	25V	
C5311	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5312	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C5313	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5317	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5318	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5322	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5323	1-128-400-11	ELECT CHIP	47µF	20%	25V	
C5327	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5328	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C5329	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5401	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5402	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C5403	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5404	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5405	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5406	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5415	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5416	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5601	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5602	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5603	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5604	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5605	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C5606	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5607	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C5608	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V	
C5609	1-164-690-91	CERAMIC CHIP	0.0022µF	5%	50V	
C5611	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5612	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5613	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5614	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C5615	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
	<CONNECTOR>					
CN5001	* 1-580-057-11	PIN, CONNECTOR (SMD) 4P				
CN5002	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P				
CN5003	* 1-764-177-11	PIN, CONNECTOR (SMD)(1.5MM) 7P				
CN5006	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P				
CN5007	* 1-764-643-21	PIN, CONNECTOR (SMD) 11P				
CN5008	* 1-569-481-11	CONNECTOR, FPC 30P				

Rf.NO.	PART NO.	DESCRIPTION	REMARK
CN5009	* 1-580-055-21	PIN, CONNECTOR (SMD) 2P	
CN5010	* 1-573-768-21	PIN, CONNECTOR (1.5MM) (SMD)5P	
CN5012	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P	
CN5020	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P	
CN5021	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P	
CN5022	* 1-569-775-21	PIN, CONNECTOR (SMD) 5P	
CN5023	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P	
CN5024	* 1-760-388-11	CONNECTOR PIN (SMD) 9 PIN	
CN5201	* 1-764-829-11	CONNECTOR, FPC 24P	
CN5301	* 1-764-829-11	CONNECTOR, FPC 24P	
CN5302	* 1-764-829-11	CONNECTOR, FPC 24P	
CN5401	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P	
	<DIODE>		
D5001	8-719-159-10	DIODE RD5.1SB-T2	
D5002	8-719-159-10	DIODE RD5.1SB-T2	
D5003	8-719-037-24	DIODE RD12SB3-T1	
D5004	8-719-037-24	DIODE RD12SB3-T1	
D5005	8-719-033-53	DIODE RD6.8SB2-T1	
D5006	8-719-988-61	DIODE 1SS355TE-17	
D5007	8-719-159-10	DIODE RD5.1SB-T2	
D5008	8-719-159-10	DIODE RD5.1SB-T2	
D5009	8-719-914-44	DIODE DAP202K	
D5010	8-719-045-55	DIODE SEC1201C	
D5011	8-719-045-55	DIODE SEC1201C	
	<FERRITE BEAD>		
FB5001	1-414-234-22	INDUCTOR CHIP	0µH
FB5002	1-414-234-22	INDUCTOR CHIP	0µH
FB5003	1-414-234-22	INDUCTOR CHIP	0µH
FB5004	1-414-234-22	INDUCTOR CHIP	0µH
FB5005	1-414-234-22	INDUCTOR CHIP	0µH
FB5006	1-414-234-22	INDUCTOR CHIP	0µH
FB5007	1-414-234-22	INDUCTOR CHIP	0µH
FB5030	1-414-234-22	INDUCTOR CHIP	0µH
FB5031	1-414-234-22	INDUCTOR CHIP	0µH
FB5032	1-414-234-22	INDUCTOR CHIP	0µH
FB5102	1-414-234-22	INDUCTOR CHIP	0µH
FB5103	1-414-234-22	INDUCTOR CHIP	0µH
FB5104	1-414-234-22	INDUCTOR CHIP	0µH
FB5105	1-414-234-22	INDUCTOR CHIP	0µH
FB5227	1-414-234-22	INDUCTOR CHIP	0µH
FB5353	1-414-234-22	INDUCTOR CHIP	0µH
FB5354	1-414-234-22	INDUCTOR CHIP	0µH
FB5401	1-414-234-22	INDUCTOR CHIP	0µH
FB5402	1-414-234-22	INDUCTOR CHIP	0µH
FB5403	1-414-234-22	INDUCTOR CHIP	0µH
FB5601	1-414-234-22	INDUCTOR CHIP	0µH
FB5602	1-414-234-22	INDUCTOR CHIP	0µH
FB5603	1-414-234-22	INDUCTOR CHIP	0µH
	<FILTER>		
FL5001	1-239-400-11	FILTER, CHIP	EMI
FL5002	1-239-466-21	FILTER, EMI	
FL5003	1-239-466-21	FILTER, EMI	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
FL5004	1-239-466-21	FILTER, EMI	
FL5005	1-239-466-21	FILTER, EMI	
FL5009	1-239-400-11	FILTER, CHIP	EMI
FL5010	1-239-400-11	FILTER, CHIP	EMI
FL5012	1-239-400-11	FILTER, CHIP	EMI
FL5013	1-239-400-11	FILTER, CHIP	EMI
FL5014	1-239-400-11	FILTER, CHIP	EMI
FL5015	1-239-400-11	FILTER, CHIP	EMI
FL5016	1-239-400-11	FILTER, CHIP	EMI
FL5017	1-239-400-11	FILTER, CHIP	EMI
FL5018	1-239-400-11	FILTER, CHIP	EMI
FL5019	1-239-400-11	FILTER, CHIP	EMI
FL5021	1-239-466-21	FILTER, EMI	
	<IC>		
IC5001	8-759-523-79	IC TC74VHC02FT(EL)	
IC5002	8-759-259-77	IC PQ20VZ5U	
IC5003	8-759-082-58	IC TC7W08FU	
IC5004	8-759-351-63	IC TA7812F(TE16L)	
IC5005	8-759-480-10	IC HD64F3048F16	
IC5006	8-759-162-80	IC MM1170BFB	
IC5007	8-759-471-25	IC BR24CF16F	
IC5008	8-759-239-92	IC TC74HC07AF	
IC5009	8-759-471-25	IC BR24CF16F	
IC5011	8-759-524-50	IC TC74VHC541FT(EL)	
IC5012	8-759-082-58	IC TC7W08FU	
IC5013	8-759-157-17	IC PQ05SZ1U	
IC5014	8-759-439-67	IC TC7W126FU(TE12R)	
IC5015	8-759-082-58	IC TC7W08FU	
IC5016	8-759-058-58	IC TC7S04FU(TE85R)	
IC5017	8-759-196-97	IC TC7SH32FU-TE85R	
IC5101	8-759-290-12	IC M62370GP-650D	
IC5102	8-759-082-57	IC TC7W04FU	
IC5103	8-759-572-46	IC MB90096PF-G-159-BND-ER	
IC5104	8-759-490-57	IC M52337SP	
IC5105	8-759-523-81	IC TC74VHC08FT(EL)	
IC5106	8-752-080-98	IC CXA2111R	
IC5107	8-759-082-57	IC TC7W04FU	
IC5108	8-759-523-03	IC TC74HC4066AFT(EL)	
IC5109	8-759-523-03	IC TC74HC4066AFT(EL)	
IC5110	8-759-066-55	IC TA75W393FU	
IC5111	8-759-066-55	IC TA75W393FU	
IC5112	8-759-058-58	IC TC7S04FU(TE85R)	
IC5201	8-759-482-47	IC M62399FP-TE2	
IC5211	8-752-080-99	IC CXA2112R	
IC5302	8-752-080-99	IC CXA2112R	
IC5305	8-752-080-99	IC CXA2112R	
IC5401	8-759-447-77	IC TC7WH74FU(TE12R)	
IC5403	* 8-759-584-21	IC ISPLSI1016E-80LT44-SX1678	
IC5404	8-759-363-18	IC TC7ST04FU(TE85R)	
IC5405	8-759-491-46	IC TC74VHCT04AFT(EL)	
IC5406	8-759-491-46	IC TC74VHCT04AFT(EL)	
	<COIL>		
L5001	1-410-377-31	INDUCTOR CHIP	4.7µH

Rf.NO.	PART NO.	DESCRIPTION			REMARK
L5101	1-410-377-31	INDUCTOR CHIP	4.7µH		
L5201	1-410-377-31	INDUCTOR CHIP	4.7µH		
L5301	1-410-377-31	INDUCTOR CHIP	4.7µH		
L5302	1-410-377-31	INDUCTOR CHIP	4.7µH		

<TRANSISTOR>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q5001	8-729-900-53	TRANSISTOR DTC114EK	
Q5002	8-729-101-07	TRANSISTOR 2SB798-DL	
Q5003	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5201	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5203	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5301	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5302	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5303	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5304	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5602	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5603	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5604	8-729-230-49	TRANSISTOR 2SC2712-YG	

<RESISTOR>

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R5001	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5002	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5003	1-216-025-91	RES,CHIP	100	5%	1/10W
R5004	1-216-025-91	RES,CHIP	100	5%	1/10W
R5005	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5006	1-216-025-91	RES,CHIP	100	5%	1/10W
R5007	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5008	1-216-025-91	RES,CHIP	100	5%	1/10W
R5009	1-216-025-91	RES,CHIP	100	5%	1/10W
R5010	1-216-025-91	RES,CHIP	100	5%	1/10W
R5011	1-216-025-91	RES,CHIP	100	5%	1/10W
R5012	1-216-025-91	RES,CHIP	100	5%	1/10W
R5013	1-216-025-91	RES,CHIP	100	5%	1/10W
R5014	1-216-025-91	RES,CHIP	100	5%	1/10W
R5015	1-216-025-91	RES,CHIP	100	5%	1/10W
R5017	1-216-025-91	RES,CHIP	100	5%	1/10W
R5018	1-216-025-91	RES,CHIP	100	5%	1/10W
R5019	1-216-025-91	RES,CHIP	100	5%	1/10W
R5020	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5021	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5022	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5023	1-216-025-91	RES,CHIP	100	5%	1/10W
R5024	1-216-025-91	RES,CHIP	100	5%	1/10W
R5025	1-216-025-91	RES,CHIP	100	5%	1/10W
R5026	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5027	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5028	1-216-025-91	RES,CHIP	100	5%	1/10W
R5029	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5030	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R5031	1-216-025-91	RES,CHIP	100	5%	1/10W
R5032	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R5033	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R5034	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5035	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5036	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5037	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5038	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5040	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5041	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5042	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5043	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5044	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5045	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5046	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5048	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5049	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5050	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5051	1-216-043-91	RES,CHIP	560	5%	1/10W
R5052	1-216-043-91	RES,CHIP	560	5%	1/10W
R5056	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5057	1-216-025-91	RES,CHIP	100	5%	1/10W
R5058	1-216-025-91	RES,CHIP	100	5%	1/10W
R5060	1-216-025-91	RES,CHIP	100	5%	1/10W
R5061	1-216-025-91	RES,CHIP	100	5%	1/10W
R5062	1-216-025-91	RES,CHIP	100	5%	1/10W
R5063	1-216-025-91	RES,CHIP	100	5%	1/10W
R5064	1-216-025-91	RES,CHIP	100	5%	1/10W
R5065	1-216-025-91	RES,CHIP	100	5%	1/10W
R5066	1-216-025-91	RES,CHIP	100	5%	1/10W
R5067	1-216-025-91	RES,CHIP	100	5%	1/10W
R5068	1-216-025-91	RES,CHIP	100	5%	1/10W
R5069	1-216-025-91	RES,CHIP	100	5%	1/10W
R5074	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5076	1-216-025-91	RES,CHIP	100	5%	1/10W
R5079	1-216-037-00	RES,CHIP	330	5%	1/10W
R5080	1-216-037-00	RES,CHIP	330	5%	1/10W
R5081	1-216-037-00	RES,CHIP	330	5%	1/10W
R5082	1-216-037-00	RES,CHIP	330	5%	1/10W
R5083	1-216-037-00	RES,CHIP	330	5%	1/10W
R5084	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5085	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5086	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5087	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5088	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5089	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5090	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5094	1-216-025-91	RES,CHIP	100	5%	1/10W
R5095	1-216-025-91	RES,CHIP	100	5%	1/10W
R5096	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5097	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5098	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5099	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5100	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5118	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5119	1-216-295-91	SHORT	0		
R5120	1-216-295-91	SHORT	0		
R5122	1-216-025-91	RES,CHIP	100	5%	1/10W
R5124	1-216-089-91	RES,CHIP	47K	5%	1/10W
R5129	1-216-017-91	RES,CHIP	47	5%	1/10W
R5131	1-216-009-91	RES,CHIP	22	5%	1/10W
R5134	1-216-009-91	RES,CHIP	22	5%	1/10W
R5137	1-216-009-91	RES,CHIP	22	5%	1/10W
R5142	1-216-025-91	RES,CHIP	100	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R5143	1-216-025-91	RES,CHIP	100	5%	1/10W
R5144	1-216-025-91	RES,CHIP	100	5%	1/10W
R5145	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R5146	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R5147	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R5148	1-216-025-91	RES,CHIP	100	5%	1/10W
R5149	1-216-017-91	RES,CHIP	47	5%	1/10W
R5150	1-216-009-91	RES,CHIP	22	5%	1/10W
R5151	1-216-009-91	RES,CHIP	22	5%	1/10W
R5152	1-216-009-91	RES,CHIP	22	5%	1/10W
R5153	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5159	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5160	1-216-009-91	RES,CHIP	22	5%	1/10W
R5161	1-216-009-91	RES,CHIP	22	5%	1/10W
R5162	1-216-009-91	RES,CHIP	22	5%	1/10W
R5164	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5167	1-216-025-91	RES,CHIP	100	5%	1/10W
R5168	1-216-025-91	RES,CHIP	100	5%	1/10W
R5171	1-216-025-91	RES,CHIP	100	5%	1/10W
R5173	1-216-025-91	RES,CHIP	100	5%	1/10W
R5181	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R5182	1-216-025-91	RES,CHIP	100	5%	1/10W
R5183	1-216-025-91	RES,CHIP	100	5%	1/10W
R5184	1-216-025-91	RES,CHIP	100	5%	1/10W
R5185	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R5198	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5201	1-216-025-91	RES,CHIP	100	5%	1/10W
R5202	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5203	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5204	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5207	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5208	1-216-295-91	SHORT	0		
R5210	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5212	1-216-025-91	RES,CHIP	100	5%	1/10W
R5213	1-216-025-91	RES,CHIP	100	5%	1/10W
R5214	1-216-025-91	RES,CHIP	100	5%	1/10W
R5215	1-216-025-91	RES,CHIP	100	5%	1/10W
R5216	1-216-025-91	RES,CHIP	100	5%	1/10W
R5217	1-216-025-91	RES,CHIP	100	5%	1/10W
R5220	1-249-417-11	CARBON	1K	5%	1/4W
R5256	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5261	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R5262	1-216-001-00	RES,CHIP	10	5%	1/10W
R5263	1-216-001-00	RES,CHIP	10	5%	1/10W
R5264	1-216-001-00	RES,CHIP	10	5%	1/10W
R5265	1-216-001-00	RES,CHIP	10	5%	1/10W
R5266	1-216-001-00	RES,CHIP	10	5%	1/10W
R5267	1-216-001-00	RES,CHIP	10	5%	1/10W
R5274	1-216-025-91	RES,CHIP	100	5%	1/10W
R5275	1-216-025-91	RES,CHIP	100	5%	1/10W
R5301	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5302	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5303	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5304	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5305	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5306	1-216-025-91	RES,CHIP	100	5%	1/10W
R5307	1-216-295-91	SHORT	0		
R5308	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R5309	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5310	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5311	1-216-298-00	RES,CHIP	2.2	5%	1/10W
R5312	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5313	1-216-025-91	RES,CHIP	100	5%	1/10W
R5314	1-216-295-91	SHORT	0		
R5315	1-216-001-00	RES,CHIP	10	5%	1/10W
R5316	1-216-001-00	RES,CHIP	10	5%	1/10W
R5317	1-216-001-00	RES,CHIP	10	5%	1/10W
R5318	1-216-001-00	RES,CHIP	10	5%	1/10W
R5319	1-216-001-00	RES,CHIP	10	5%	1/10W
R5320	1-216-001-00	RES,CHIP	10	5%	1/10W
R5321	1-216-025-91	RES,CHIP	100	5%	1/10W
R5322	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5323	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5326	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5331	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R5338	1-216-001-00	RES,CHIP	10	5%	1/10W
R5339	1-216-001-00	RES,CHIP	10	5%	1/10W
R5340	1-216-001-00	RES,CHIP	10	5%	1/10W
R5341	1-216-001-00	RES,CHIP	10	5%	1/10W
R5342	1-216-001-00	RES,CHIP	10	5%	1/10W
R5343	1-216-001-00	RES,CHIP	10	5%	1/10W
R5344	1-216-025-91	RES,CHIP	100	5%	1/10W
R5351	1-216-025-91	RES,CHIP	100	5%	1/10W
R5352	1-216-025-91	RES,CHIP	100	5%	1/10W
R5401	1-216-025-91	RES,CHIP	100	5%	1/10W
R5402	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5403	1-216-017-91	RES,CHIP	47	5%	1/10W
R5405	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5406	1-216-017-91	RES,CHIP	47	5%	1/10W
R5407	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5408	1-216-017-91	RES,CHIP	47	5%	1/10W
R5409	1-216-025-91	RES,CHIP	100	5%	1/10W
R5410	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5411	1-216-017-91	RES,CHIP	47	5%	1/10W
R5414	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5415	1-216-017-91	RES,CHIP	47	5%	1/10W
R5416	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5417	1-216-017-91	RES,CHIP	47	5%	1/10W
R5418	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5419	1-216-017-91	RES,CHIP	47	5%	1/10W
R5420	1-216-017-91	RES,CHIP	47	5%	1/10W
R5421	1-216-025-91	RES,CHIP	100	5%	1/10W
R5422	1-216-025-91	RES,CHIP	100	5%	1/10W
R5423	1-216-025-91	RES,CHIP	100	5%	1/10W
R5424	1-216-025-91	RES,CHIP	100	5%	1/10W
R5425	1-216-025-91	RES,CHIP	100	5%	1/10W
R5426	1-216-025-91	RES,CHIP	100	5%	1/10W
R5427	1-216-025-91	RES,CHIP	100	5%	1/10W
R5428	1-216-025-91	RES,CHIP	100	5%	1/10W
R5429	1-216-025-91	RES,CHIP	100	5%	1/10W
R5430	1-216-017-91	RES,CHIP	47	5%	1/10W
R5431	1-216-017-91	RES,CHIP	47	5%	1/10W
R5432	1-216-017-91	RES,CHIP	47	5%	1/10W
R5435	1-216-017-91	RES,CHIP	47	5%	1/10W
R5436	1-216-017-91	RES,CHIP	47	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R5501	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5502	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5503	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5504	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5515	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R5516	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5528	1-216-049-91	RES,CHIP	1K	5%	1/10W
R5532	1-216-025-91	RES,CHIP	100	5%	1/10W
R5533	1-216-025-91	RES,CHIP	100	5%	1/10W
R5608	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R5613	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5614	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5615	1-216-650-11	METAL CHIP	910	0.50%	1/10W
R5616	1-216-017-91	RES,CHIP	47	5%	1/10W
R5617	1-216-017-91	RES,CHIP	47	5%	1/10W
R5618	1-216-017-91	RES,CHIP	47	5%	1/10W
R5619	1-216-684-91	METAL CHIP	24K	0.50%	1/10W
R5620	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R5621	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5622	1-216-073-00	RES,CHIP	10K	5%	1/10W
R5623	1-216-085-00	RES,CHIP	33K	5%	1/10W
R5624	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R5625	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R5626	1-216-043-91	RES,CHIP	560	5%	1/10W
R5627	1-216-295-91	SHORT 0			
R5629	1-216-017-91	RES,CHIP	47	5%	1/10W
R5630	1-216-017-91	RES,CHIP	47	5%	1/10W
R5635	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5636	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5637	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5638	1-216-017-91	RES,CHIP	47	5%	1/10W
R5639	1-216-017-91	RES,CHIP	47	5%	1/10W
R5640	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R5641	1-216-017-91	RES,CHIP	47	5%	1/10W
R5642	1-216-017-91	RES,CHIP	47	5%	1/10W
R5643	1-216-025-91	RES,CHIP	100	5%	1/10W
R5644	1-216-025-91	RES,CHIP	100	5%	1/10W
R5645	1-216-025-91	RES,CHIP	100	5%	1/10W
R5646	1-216-025-91	RES,CHIP	100	5%	1/10W
R5647	1-216-025-91	RES,CHIP	100	5%	1/10W
R5654	1-216-025-91	RES,CHIP	100	5%	1/10W
R5655	1-216-295-91	SHORT 0			
R5658	1-216-017-91	RES,CHIP	47	5%	1/10W
	<NETWORK RESISTOR>				
RB5101	1-233-576-11	RES, CHIP	NETWORK 100x4		
	<THERMISTOR>				
TH5001	1-808-656-11	THERMISTOR			
TH5002	1-806-715-11	THERMISTOR			

Rf.NO.	PART NO.	DESCRIPTION			REMARK
	<CRYSTAL>				
X5001	1-767-347-11	VIBRATOR, CRYSTAL (16MHz)			

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1241-314-A	F BOARD, COMPLETE *********************			
	1-533-223-11	HOLDER, FUSE (f9001)			
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	<CAPACITOR>				
C9001	⚠1-113-912-51	CERAMIC	0.0047μF	20%	250V
C9002	⚠1-113-912-51	CERAMIC	0.0047μF	20%	250V
C9003	⚠1-113-513-11	FILM	1μF	20%	275V
C9004	⚠1-113-513-11	FILM	1μF	20%	275V
C9005	⚠1-113-912-51	CERAMIC	0.0047μF	20%	250V
C9006	⚠1-113-912-51	CERAMIC	0.0047μF	20%	250V
	<CONNECTOR>				
CN9001	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P			
CN9002	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			
	<FUSE>				
F9001	⚠1-576-233-11	FUSE (H.B.C.)(6.3A/250V)			
	<FERRITE BEAD>				
FB9001	⚠1-410-396-21	INDUCTOR	0.45μH		
	<COIL>				
L9001	⚠1-431-838-11	TRANSFORMER, LINE FILTER			
	<RESISTOR>				
R9001	⚠1-202-882-91	SOLID	560K	20%	1/2W
R9002	⚠1-202-882-91	SOLID	560K	20%	1/2W
	<VARISTOR>				
VD9001	⚠1-801-073-41	VARISTOR ERZV14D471			

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1316-340-B	GA BOARD, COMPLETE ***********************			
	1-543-923-11	FERRITE	0μH		
	7-682-147-01	SCREW +P 3X6			
	7-682-948-01	SCREW +PSW 3X8			

Rf.NO.	PART NO.	DESCRIPTION				REMARK
		<CAPACITOR>				
C8010	⚠1-113-513-11	FILM	1μF	20%	275V	
C8011	⚠1-137-477-61	FILM	0.47μF	10%	400V	
C8012	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C8013	1-164-492-11	CERAMIC CHIP	0.15μF	10%	16V	
C8014	1-164-492-11	CERAMIC CHIP	0.15μF	10%	16V	
C8015	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C8016	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C8026	1-117-751-11	ELECT(BLOCK)	220μF	20%	450V	
C8034	1-165-319-11	CERAMIC CHIP	0.1μF		50V	
C8035	1-107-889-11	ELECT	220μF	20%	25V	
C8038	1-104-330-11	CERAMIC	470PF	10%	1KV	
C8039	1-104-330-11	CERAMIC	470PF	10%	1KV	
C8041	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C8099	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	
		<CONNECTOR>				
CN8001	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P				
CN8002	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P				
CN8003	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P				
CN8004	* 1-564-507-11	PLUG, CONNECTOR 4P				
		<DIODE>				
D8001	8-719-066-75	DIODE D6SB80				
D8002	8-719-060-06	DIODE FSF10A60				
D8003	⚠1-803-136-11	VARISTOR ZP2600				
D8004	1-803-136-11	VARISTOR ZP2600				
D8006	8-719-066-76	DIODE TF861S				
D8007	8-719-055-30	DIODE D1FS4A-TA				
D8008	8-719-055-30	DIODE D1FS4A-TA				
D8009	8-719-055-30	DIODE D1FS4A-TA				
D8010	8-719-055-30	DIODE D1FS4A-TA				
		<IC>				
IC8001	8-759-485-61	IC FA5331P				
		<COIL>				
L8003	1-416-534-11	INDUCTOR	760μH			
L8005	⚠1-416-461-11	INDUCTOR	60μH			
		<TRANSISTOR>				
Q8001	8-729-043-15	TRANSISTOR 2SK3013F-02				
Q8002	8-729-043-15	TRANSISTOR 2SK3013F-02				
Q8003	8-729-230-49	TRANSISTOR 2SC2712-YG				
		<RESISTOR>				
R8001	⚠1-219-363-11	FUSIBLE	5.6	5%	5W	F
R8002	⚠1-219-363-11	FUSIBLE	5.6	5%	5W	F
R8003	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F
R8004	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R8005	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R8007	1-216-003-11	RES,CHIP	12	5%	1/10W	
R8008	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R8009	1-216-003-11	RES,CHIP	12	5%	1/10W	
R8010	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R8011	1-220-335-11	RES,CHIP	180K	5%	1/2W	
R8012	1-220-336-11	RES,CHIP	220K	5%	1/2W	
R8013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R8014	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R8015	1-220-337-11	RES,CHIP	270K	5%	1/2W	
R8016	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R8017	1-216-101-00	RES,CHIP	150K	5%	1/10W	
R8018	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R8019	1-216-005-00	RES,CHIP	15	5%	1/10W	
R8020	1-220-335-11	RES,CHIP	180K	5%	1/2W	
R8021	1-220-335-11	RES,CHIP	180K	5%	1/2W	
R8022	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R8028	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	
R8031	1-220-337-11	RES,CHIP	270K	5%	1/2W	
R8032	1-216-295-91	SHORT	0			
R8034	⚠1-208-604-11	REGISTER	0.22	10%	5W	F
R8036	1-216-025-91	RES,CHIP	100	5%	1/10W	
R8037	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R8038	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R8039	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R8041	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	

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Rf.NO.	PART NO.	DESCRIPTION				REMARK
	* A-1316-434-A	GB BOARD, COMPLETE				
		***********************				
	1-543-923-11	FERRITE	0μH			
	7-682-948-01	SCREW +PSW 3X8				
		<CAPACITOR>				
C7001	1-107-888-11	ELECT	47μF	20%	25V	
C7002	1-107-889-11	ELECT	220μF	20%	25V	
C7004	1-107-914-11	ELECT	1000μF	20%	25V	
C7005	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C7006	1-107-909-11	ELECT	47μF	20%	10V	
C7010	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	
C7011	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C7012	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C7013	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C7014	1-107-889-11	ELECT	220μF	20%	25V	
C7016	1-163-031-11	CERAMIC CHIP	0.01μF	50V		
C7020	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	
C7026	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C7027	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	
C7031	1-129-718-00	FILM	0.022μF	5%	630V	
C7038	1-126-524-11	ELECT	180μF	20%	63V	
C7040	1-115-786-11	ELECT	560μF	20%	25V	
C7042	1-126-524-11	ELECT	180μF	20%	63V	
C7043	1-126-524-11	ELECT	180μF	20%	63V	
C7044	1-115-746-11	ELECT	0.0056F	20%	10V	
C7045	1-128-526-11	ELECT	100μF	20%	10V	
C7046	1-107-823-11	CERAMIC CHIP	0.47μF	10%	16V	
C7049	1-115-734-11	ELECT	680μF	20%	10V	

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
C7052	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7054	1-115-784-11	ELECT	270µF	20%	25V
C7055	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7056	1-128-526-11	ELECT	100µF	20%	10V
C7057	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C7059	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7060	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7061	1-107-909-11	ELECT	47µF	20%	16V
C7062	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7063	1-115-755-11	ELECT	180µF	20%	16V
C7064	1-115-734-11	ELECT	680µF	20%	10V
C7065	1-107-792-11	CERAMIC	100PF	5%	1KV
C7066	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C7067	1-107-909-11	ELECT	47µF	20%	16V
C7068	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C7069	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C7070	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C7071	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C7072	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C7073	1-129-720-00	FILM	0.033µF	5%	630V
C7074	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
	<CONNECTOR>				
CN7001	* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P			
CN7002	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN7003	* 1-778-373-11	PIN, CONNECTOR (PC BOARD)			
CN7004	* 1-778-373-11	PIN, CONNECTOR (PC BOARD)			
	<DIODE>				
D7001	8-719-059-23	DIODE P6KE200AG23			
D7002	8-719-947-06	DIODE RGP10JPKG23			
D7003	8-719-302-43	DIODE EL1Z			
D7004	8-719-104-34	DIODE 1S2836			
D7005	8-719-106-71	DIODE RD12M-B2			
D7006	1-803-136-11	VARISTOR ZP2600			
D7007	8-719-022-97	DIODE D2S4MF			
D7009	8-719-510-41	DIODE D10SC9M			
D7010	8-719-051-96	DIODE FMG-G2CS			
D7011	8-719-510-41	DIODE D10SC9M			
D7012	8-719-050-21	DIODE FCQ20A04			
D7013	8-719-510-13	DIODE D10SC4MR			
D7015	8-719-510-41	DIODE D10SC9M			
D7020	8-719-914-43	DIODE DAN202K			
D7021	8-719-055-30	DIODE D1FS4A-TA			
D7022	8-719-055-30	DIODE D1FS4A-TA			
D7023	8-719-055-30	DIODE D1FS4A-TA			
D7024	8-719-055-30	DIODE D1FS4A-TA			
D7025	8-719-510-41	DIODE D10SC9M			
D7026	8-719-510-41	DIODE D10SC9M			
D7027	8-719-510-41	DIODE D10SC9M			
D7028	8-719-050-21	DIODE FCQ20A04			
D7029	8-719-055-30	DIODE D1FS4A-TA			
D7030	8-719-068-71	DIODE PTZ-TE25-13A			
D7031	8-719-068-71	DIODE PTZ-TE25-13A			
D7101	8-719-106-80	DIODE RD13M-B2			

Rf.NO.	PART NO.	DESCRIPTION				REMARK
	<IC>					
IC7002	8-759-157-17	IC PQ05SZ1U				
IC7003	8-759-485-64	IC UCC2801N				
IC7005	8-759-388-23	IC TL431BCDR2				
IC7006	8-759-487-72	IC TOP222Y-BB				
IC7007	8-759-485-63	IC MAX1626ESA-TE2				
IC7010	8-759-485-63	IC MAX1626ESA-TE2				
IC7012	8-759-701-79	IC NJM7812FA				
IC7013	8-759-506-12	IC PQ12RF1				
IC7014	8-759-506-12	IC PQ12RF1				
	<COIL>					
L7001	1-406-975-21	INDUCTOR	47µH			
L7002	1-406-980-61	INDUCTOR	330µH			
L7003	1-406-974-61	INDUCTOR	33µH			
L7004	1-406-971-51	INDUCTOR	10µH			
L7005	1-412-531-31	INDUCTOR	33µH			
L7006	1-406-977-61	INDUCTOR	100µH			
L7007	1-412-531-31	INDUCTOR	33µH			
L7010	1-406-656-21	INDUCTOR	3.3µH			
L7011	1-406-658-21	INDUCTOR	6.8µH			
	<PHOTO COUPLER>					
PH7001	8-749-010-64	PHOTO COUPLER PC123F2				
PH7002	8-749-010-64	PHOTO COUPLER PC123F2				
PH7003	8-749-013-16	IC PC357N2T				
	<IC LINK>					
PS7001	⚠1-533-282-21	LINK, IC (2A)				
PS7003	⚠1-576-124-21	LINK, IC (1A)				
PS7004	⚠1-216-296-91	SHORT	0			
PS7005	⚠1-576-124-21	LINK, IC (1A)				
PS7007	⚠1-576-124-21	LINK, IC (1A)				
PS7010	⚠1-533-282-21	LINK, IC (2A)				
PS7011	⚠1-533-282-21	LINK, IC (2A)				
PS7013	⚠1-533-282-21	LINK, IC (2A)				
	<TRANSISTOR>					
Q7004	8-729-031-13	TRANSISTOR SI-9430DY-T1				
Q7007	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7010	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7013	8-729-042-96	TRANSISTOR 2SK2677F-02				
Q7015	8-729-031-13	TRANSISTOR SI-9430DY-T1				
Q7018	8-729-042-96	TRANSISTOR 2SK2677F-02				
	<RESISTOR>					
R7001	1-217-418-61	FUSIBLE	0.47	10%	1/2W	F
R7002	1-216-009-91	RES,CHIP	22	5%	1/10W	
R7003	1-218-191-11	METAL OXIDE	0.1	5%	1W	F
R7005	1-216-295-91	SHORT	0			
R7016	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R7017	1-216-079-00	RES,CHIP	18K	5%	1/10W	
R7018	1-216-101-00	RES,CHIP	150K	5%	1/10W	

Rf.NO.	PART NO.	DESCRIPTION				REMARK
R7019	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	
R7020	1-216-023-00	RES,CHIP	82	5%	1/10W	
R7023	1-216-023-00	RES,CHIP	82	5%	1/10W	
R7024	1-216-390-11	METAL OXIDE	1.2	5%	3W	F
R7025	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R7029	1-216-023-00	RES,CHIP	82	5%	1/10W	
R7030	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R7031	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R7032	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R7033	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
R7036	1-216-025-91	RES,CHIP	100	5%	1/10W	
R7048	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R7049	1-215-929-11	METAL OXIDE	100K	5%	3W	F
R7051	1-216-025-91	RES,CHIP	100	5%	1/10W	
R7052	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R7053	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R7061	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7062	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R7064	1-218-191-11	METAL OXIDE	0.1	5%	1W	F
R7067	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7068	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7069	1-216-295-91	SHORT 0				
R7070	1-218-191-11	METAL OXIDE	0.1	5%	1W	F
R7072	1-218-191-11	METAL OXIDE	0.1	5%	1W	F
R7075	1-216-023-00	RES,CHIP	82	5%	1/10W	
R7076	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R7078	1-216-025-91	RES,CHIP	100	5%	1/10W	
R7079	1-216-295-91	SHORT 0				
R7083	1-249-389-11	CARBON	4.7	5%	1/4W	F
R7085	1-220-302-11	RES,CHIP	10K	5%	1/2W	
R7086	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7087	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7088	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7089	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R7090	1-215-883-11	METAL OXIDE	33	5%	2W	F
R7094	1-216-311-00	RES,CHIP	6.8	5%	1/10W	

<TRANSFORMER>

Rf.NO.	PART NO.	DESCRIPTION
T7001	1-431-680-11	TRANSFORMER, CONVERTER (SRT)
T7002	1-431-613-11	TRANSFORMER, CONVERTER (SRT)

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Rf.NO.	PART NO.	DESCRIPTION
	* A-1316-369-B	GBA BOARD, COMPLETE *************************
	7-634-109-24	TUBE, SILLICONE VARNISH GLASS

<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION				REMARK
C7101	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7102	1-124-589-11	ELECT	47µF	20%	16V	
C7103	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7104	1-124-589-11	ELECT	47µF	20%	16V	
C7105	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7106	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7107	1-124-589-11	ELECT	47µF	20%	16V	
C7108	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7109	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7110	1-124-589-11	ELECT	47µF	20%	16V	
C7111	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C7115	1-126-155-11	ELECT	100µF	20%	6.3V	
C7116	1-128-078-11	ELECT	33µF	20%	25V	
C7117	1-128-078-11	ELECT	33µF	20%	25V	
C7118	1-164-505-11	CERAMIC CHIP	2.2µF	16V		

<CONNECTOR>

Rf.NO.	PART NO.	DESCRIPTION
CN7101	* 1-779-004-11	HOUSING, CONNECTOR
CN7102	* 1-779-004-11	HOUSING, CONNECTOR
CN7103	* 1-564-510-11	PLUG, CONNECTOR 7P
CN7104	* 1-564-506-11	PLUG, CONNECTOR 3P
CN7105	* 1-564-506-11	PLUG, CONNECTOR 3P
CN7106	* 1-564-508-11	PLUG, CONNECTOR 5P
CN7107	* 1-764-334-11	PLUG, CONNECTOR 11P
CN7108	* 1-564-513-11	PLUG, CONNECTOR 10P
CN7109	* 1-564-516-11	PLUG, CONNECTOR 13P
CN7110	* 1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

Rf.NO.	PART NO.	DESCRIPTION
D7019	8-719-104-34	DIODE 1S2836
D7102	8-719-911-19	DIODE 1SS119-25
D7103	8-719-104-34	DIODE 1S2836

<IC>

Rf.NO.	PART NO.	DESCRIPTION
IC7101	8-759-296-72	IC PQ12SZ5U
IC7102	8-759-335-28	IC TA78M09F(TE16L)
IC7103	8-759-157-17	IC PQ05SZ1U
IC7104	8-759-045-17	IC NJM79L05UA

<TRANSISTOR>

Rf.NO.	PART NO.	DESCRIPTION
Q7101	8-729-230-49	TRANSISTOR 2SC2712-YG
Q7102	8-729-230-49	TRANSISTOR 2SC2712-YG
Q7103	8-729-230-49	TRANSISTOR 2SC2712-YG

<RESISTOR>

Rf.NO.	PART NO.	DESCRIPTION				REMARK
R7077	1-216-295-91	SHORT 0				
R7101	1-216-389-11	METAL OXIDE	1	5%	3W	F
R7102	1-215-910-00	METAL OXIDE	68	5%	3W	F
R7120	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R7121	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7122	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7123	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R7124	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7125	1-216-643-11	METAL CHIP	470	0.50%	1/10W	
R7126	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R7127	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7128	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7129	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1375-172-A	H BOARD, COMPLETE **********************			
		<CONNECTOR>			
CN6001	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P			
CN6002	* 1-580-789-21	PIN, CONNECTOR (SMD) 6P			
CN6003	* 1-580-057-11	PIN, CONNECTOR (SMD) 4P			
CN6004	* 1-580-055-21	PIN, CONNECTOR (SMD) 2P			
		<DIODE>			
D6001	8-719-914-43	DIODE DAN202K			
D6002	8-719-914-44	DIODE DAP202K			
D6003	8-719-045-61	DIODE SEC1901C			
D6004	8-719-045-61	DIODE SEC1901C			
D6005	8-719-045-55	DIODE SEC1201C			
D6006	8-719-045-60	DIODE SEC1401C			
D6007	8-719-045-53	DIODE SEC1801C			
D6008	8-719-914-43	DIODE DAN202K			
D6009	8-719-914-43	DIODE DAN202K			
D6010	8-719-914-43	DIODE DAN202K			
D6011	8-719-914-44	DIODE DAP202K			
D6012	8-719-914-44	DIODE DAP202K			
D6013	8-719-914-44	DIODE DAP202K			
D6014	8-719-045-60	DIODE SEC1401C			
D6015	8-719-045-53	DIODE SEC1801C			
D6016	8-719-045-53	DIODE SEC1801C			
D6017	8-719-045-53	DIODE SEC1801C			
D6018	8-719-045-53	DIODE SEC1801C			
D6019	8-719-045-53	DIODE SEC1801C			
D6020	8-719-045-53	DIODE SEC1801C			
D6021	8-719-045-53	DIODE SEC1801C			
D6022	8-719-045-53	DIODE SEC1801C			
D6023	8-719-045-53	DIODE SEC1801C			
D6024	8-719-045-53	DIODE SEC1801C			
D6025	8-719-045-53	DIODE SEC1801C			
D6026	8-719-045-53	DIODE SEC1801C			
D6027	8-719-045-53	DIODE SEC1801C			
D6028	8-719-045-53	DIODE SEC1801C			
		<TRANSISTOR>			
Q6001	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q6002	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6005	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R6001	1-216-083-00	RES,CHIP	27K	5%	1/10W
R6002	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6003	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6004	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6005	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6006	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6007	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6008	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6009	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6010	1-216-069-00	RES,CHIP	6.8K	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R6011	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6012	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6014	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6015	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6016	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6018	1-216-037-00	RES,CHIP	330	5%	1/10W
R6019	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6020	1-216-033-00	RES,CHIP	220	5%	1/10W
R6021	1-216-039-00	RES,CHIP	390	5%	1/10W
R6022	1-216-029-00	RES,CHIP	150	5%	1/10W
R6024	1-216-029-00	RES,CHIP	150	5%	1/10W
R6026	1-216-029-00	RES,CHIP	150	5%	1/10W
R6028	1-216-029-00	RES,CHIP	150	5%	1/10W
R6030	1-216-029-00	RES,CHIP	150	5%	1/10W
R6033	1-216-029-00	RES,CHIP	150	5%	1/10W
R6034	1-216-039-00	RES,CHIP	390	5%	1/10W
R6035	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6038	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
		<SWITCH>			
S6001	1-692-453-11	SWITCH, KEY BOARD (⬅(LEFT))			
S6002	1-692-453-11	SWITCH, KEY BOARD (➡(RIGHT))			
S6003	1-692-453-11	SWITCH, KEY BOARD (⬇(DOWN))			
S6004	1-692-453-11	SWITCH, KEY BOARD (⬆(UP))			
S6005	1-692-453-11	SWITCH, KEY BOARD (ENTER)			
S6006	1-692-453-11	SWITCH, KEY BOARD (MENU)			
S6007	1-692-453-11	SWITCH, KEY BOARD (INPUT)			
S6008	1-692-453-11	SWITCH, KEY BOARD (POWER)			
S6009	1-692-453-11	SWITCH, KEY BOARD (PATTERN)			
S6010	1-692-453-11	SWITCH, KEY BOARD (AUTO)			
S6011	1-692-453-11	SWITCH, KEY BOARD (VOLUME –)			
S6012	1-692-453-11	SWITCH, KEY BOARD (VOLUME +)			
S6013	1-692-453-11	SWITCH, KEY BOARD (RESET)			
S6014	1-692-453-11	SWITCH, KEY BOARD (LIGHT)			

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Rf.NO.	PART NO.	DESCRIPTION			REMARK
	* 1-668-126-11	NF BOARD **********			
		<CAPACITOR>			
C4007	1-124-589-11	ELECT	47µF	20%	10V
		<CONNECTOR>			
CN4001	* 1-564-518-11	PLUG, CONNECTOR 3P			
		<IC>			
IC4001	8-749-011-03	IC GP1U26X			

Rf.NO.	PART NO.	DESCRIPTION				REMARK
	<RESISTOR>					
R4001	1-216-017-91	RES,CHIP	47	5%	1/10W	
R4002	1-216-025-91	RES,CHIP	100	5%	1/10W	
**						
	* 1-668-127-11	NR BOARD **********				
	<CAPACITOR>					
C4801	1-124-589-11	ELECT	47µF	20%	10V	
	<CONNECTOR>					
CN4801	* 1-564-518-11	PLUG, CONNECTOR 3P				
	<IC>					
IC4801	8-749-011-03	IC GP1U26X				
	<RESISTOR>					
R4801	1-216-017-91	RES,CHIP	47	5%	1/10W	
R4802	1-216-025-91	RES,CHIP	100	5%	1/10W	
**						
	* A-1275-150-D	QA BOARD, COMPLETE ***********************				
	<CAPACITOR>					
C1001	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C1003	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1005	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1006	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1007	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1008	1-126-191-11	ELECT CHIP	0.47µF	20%	50V	
C1009	1-126-191-11	ELECT CHIP	0.47µF	20%	50V	
C1010	1-115-565-11	CERAMIC CHIP	2.2µF	10%	10V	
C1011	1-115-565-11	CERAMIC CHIP	2.2µF	10%	10V	
C1012	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1024	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1030	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1040	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1041	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1048	1-126-395-11	ELECT CHIP	22µF	20%	16V	
C1049	1-126-395-11	ELECT CHIP	22µF	20%	16V	
C1050	1-126-601-11	ELECT CHIP	2.2µF	20%	50V	
C1051	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1052	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1053	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1054	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1055	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V	
C1056	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1057	1-117-681-11	ELECT CHIP	100µF	20%	16V	

Rf.NO.	PART NO.	DESCRIPTION				REMARK
C1058	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V	
C1059	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1060	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1061	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1062	1-126-603-11	ELECT CHIP	4.7µF	20%	35V	
C1065	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C1066	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1068	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1069	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1072	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1073	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V	
C1074	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1075	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1077	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1078	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1079	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V	
C1080	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1081	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1082	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1083	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1084	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1085	1-124-779-00	ELECT CHIP	10µF	20%	16V	
C1086	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V	
C1087	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1088	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C1089	1-126-204-11	ELECT CHIP	47µF	20%	16V	
C1090	1-163-023-00	CERAMIC CHIP	0.015µF	10%	50V	
C1091	1-163-023-00	CERAMIC CHIP	0.015µF	10%	50V	
C1092	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1093	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1094	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V	
C1095	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1096	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
C1097	1-107-682-11	CERAMIC CHIP	1µF	10%	16V	
	<CONNECTOR>					
CN1001	* 1-580-789-21	PIN, CONNECTOR (SMD) 6P				
CN1002	* 1-569-775-21	PIN, CONNECTOR (SMD) 5P				
CN1003	* 1-580-057-11	PIN, CONNECTOR (SMD) 4P				
CN1004	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P				
	<DIODE>					
D1001	8-719-158-37	DIODE RD9.1SB2				
D1002	8-719-158-37	DIODE RD9.1SB2				
D1003	8-719-158-37	DIODE RD9.1SB2				
D1004	8-719-158-37	DIODE RD9.1SB2				
D1005	8-719-158-37	DIODE RD9.1SB2				
D1007	8-719-158-37	DIODE RD9.1SB2				
D1008	8-719-158-37	DIODE RD9.1SB2				
D1009	8-719-914-43	DIODE DAN202K				
D1010	8-719-914-44	DIODE DAP202K				
D1011	8-719-036-76	DIODE RD3.3SB2-T1				
D1012	8-719-914-43	DIODE DAN202K				
D1013	8-719-914-43	DIODE DAN202K				
D1014	8-719-158-37	DIODE RD9.1SB2				
D1015	8-719-158-37	DIODE RD9.1SB2				

Rf.NO.	PART NO.	DESCRIPTION			REMARK
D1016	8-719-036-76	DIODE RD3.3SB2-T1			
	<IC>				
IC1001	8-759-285-61	IC PC74HC123D-T			
IC1006	8-759-983-69	IC LM358PS			
IC1007	8-759-524-84	IC TEA2025D-013TR			
IC1008	8-752-074-42	IC CXA1946AR			
IC1009	8-759-983-69	IC LM358PS			
	<JACK>				
J1001	1-563-935-11	JACK, STEREO HEADPHONE (AUDIO INPUT A)			
J1002	1-563-935-11	JACK, STEREO HEADPHONE (AUDIO INPUT B)			
J1004	1-563-935-11	JACK, STEREO HEADPHONE (AUDIO OUT)			
J1005	1-563-935-11	JACK, STEREO HEADPHONE (CONTROL S IN)			
	<COIL>				
L1001	1-412-363-21	FERRITE	0µH		
L1002	1-412-363-21	FERRITE	0µH		
L1003	1-412-363-21	FERRITE	0µH		
L1004	1-412-363-21	FERRITE	0µH		
L1005	1-412-363-21	FERRITE	0µH		
L1006	1-412-363-21	FERRITE	0µH		
L1008	1-412-363-21	FERRITE	0µH		
L1009	1-412-363-21	FERRITE	0µH		
L1010	1-412-363-21	FERRITE	0µH		
L1011	1-412-363-21	FERRITE	0µH		
L1012	1-412-363-21	FERRITE	0µH		
	<TRANSISTOR>				
Q1001	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1002	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1003	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1004	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1005	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q1007	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1008	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q1011	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1012	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1013	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1014	8-729-230-49	TRANSISTOR 2SC2712-YG			
	<RESISTOR>				
R1001	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R1002	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1003	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1004	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1005	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1007	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1008	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1009	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1010	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1011	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1012	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1013	1-216-148-00	RES,CHIP	8.2	5%	1/8W
R1014	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1015	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1018	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1027	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1028	1-216-025-91	RES,CHIP	100	5%	1/10W
R1029	1-216-025-91	RES,CHIP	100	5%	1/10W
R1033	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1034	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1037	1-216-025-91	RES,CHIP	100	5%	1/10W
R1054	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1055	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1058	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1059	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1062	1-216-025-91	RES,CHIP	100	5%	1/10W
R1072	1-216-025-91	RES,CHIP	100	5%	1/10W
R1074	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1076	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1077	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1079	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1080	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1082	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1083	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1084	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1085	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1086	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1087	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1088	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1089	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1090	1-216-041-00	RES,CHIP	470	5%	1/10W
R1091	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1092	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1093	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1094	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1095	1-216-295-91	SHORT	0		
R1096	1-216-295-91	SHORT	0		
R1097	1-216-295-91	SHORT	0		
R1098	1-216-295-91	SHORT	0		
R1099	1-216-295-91	SHORT	0		
R1100	1-216-295-91	SHORT	0		
R1102	1-216-295-91	SHORT	0		
R1103	1-216-295-91	SHORT	0		
R1104	1-216-295-91	SHORT	0		
R1106	1-216-295-91	SHORT	0		
R1107	1-216-295-91	SHORT	0		
R1108	1-216-295-91	SHORT	0		
R1109	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1110	1-216-025-91	RES,CHIP	100	5%	1/10W
R1111	1-216-025-91	RES,CHIP	100	5%	1/10W
R1112	1-216-025-91	RES,CHIP	100	5%	1/10W
R1114	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1116	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1117	1-216-073-00	RES,CHIP	10K	5%	1/10W

Rf.NO.	PART NO.	DESCRIPTION				REMARK
R1118	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1119	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1120	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1121	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1122	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1123	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1124	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1125	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1126	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1127	1-216-073-00	RES,CHIP	10K	5%	1/10W	

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* 1-668-130-15 QB BOARD (S900M/S900U)

****

<CONNECTOR>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
CN1501*	1-766-383-11	PIN, CONNECTOR (1.5MM)(SMD)12P	

<JACK>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
J1501	1-770-053-11	TERMINAL BLOCK, S (LIGHT ANGLE)	

****

* A-1275-169-A QC BOARD, COMPLETE

****

<CAPACITOR>

Rf.NO.	PART NO.	DESCRIPTION				REMARK
C1601	1-117-681-11	ELECT CHIP	100µF	20%	16V	
C1602	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1603	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1604	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1605	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1606	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1607	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1608	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1609	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1610	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1611	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1612	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1613	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1614	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1615	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1616	1-107-725-11	CERAMIC CHIP	0.1µF	10%	16V	
C1617	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1618	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1619	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C1620	1-117-681-11	ELECT CHIP	100µF	20%	16V	

<CONNECTOR>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
CN1600	1-778-830-21	CONNECTOR (BUS)	
CN1601	* 1-569-775-21	PIN, CONNECTOR (SMD) 5P	
CN1602	1-778-830-21	CONNECTOR (BUS)	

<DIODE>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
D1602	8-719-988-61	DIODE 1SS355TE-17	
D1603	8-719-988-61	DIODE 1SS355TE-17	
D1604	8-719-058-24	DIODE RB501V-40TE-17	
D1605	8-719-158-15	DIODE RD5.6SB	
D1606	8-719-988-61	DIODE 1SS355TE-17	
D1608	8-719-158-15	DIODE RD5.6SB	
D1609	8-719-158-15	DIODE RD5.6SB	
D1610	8-719-158-15	DIODE RD5.6SB	
D1611	8-719-158-15	DIODE RD5.6SB	
D1612	8-719-158-15	DIODE RD5.6SB	
D1613	8-719-158-15	DIODE RD5.6SB	
D1614	8-719-158-15	DIODE RD5.6SB	
D1615	8-719-988-61	DIODE 1SS355TE-17	
D1616	8-719-158-15	DIODE RD5.6SB	
D1617	8-719-158-15	DIODE RD5.6SB	
D1618	8-719-158-15	DIODE RD5.6SB	
D1619	8-719-988-61	DIODE 1SS355TE-17	
D1627	8-719-158-15	DIODE RD5.6SB	
D1628	8-719-158-15	DIODE RD5.6SB	
D1629	8-719-158-15	DIODE RD5.6SB	
D1630	8-719-158-15	DIODE RD5.6SB	
D1631	8-719-158-15	DIODE RD5.6SB	
D1632	8-719-158-15	DIODE RD5.6SB	
D1633	8-719-158-15	DIODE RD5.6SB	
D1634	8-719-158-15	DIODE RD5.6SB	
D1635	8-719-158-15	DIODE RD5.6SB	
D1636	8-719-158-15	DIODE RD5.6SB	
D1637	8-719-158-37	DIODE RD9.1SB2	
D1638	8-719-158-15	DIODE RD5.6SB	
D1639	8-719-158-37	DIODE RD9.1SB2	
D1640	8-719-158-15	DIODE RD5.6SB	
D1641	8-719-988-61	DIODE 1SS355TE-17	
D1642	8-719-988-61	DIODE 1SS355TE-17	
D1643	8-719-058-24	DIODE RB501V-40TE-17	
D1644	8-719-158-15	DIODE RD5.6SB	
D1645	8-719-988-61	DIODE 1SS355TE-17	
D1651	8-719-988-61	DIODE 1SS355TE-17	
D1653	8-719-988-61	DIODE 1SS355TE-17	

<IC>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
IC1601	8-759-186-43	IC TC74VHC123AF	
IC1602	8-759-586-47	IC RCV2-A3S	
IC1603	8-759-186-43	IC TC74VHC123AF	
IC1604	8-759-586-47	IC RCV2-A3S	

<TRANSISTOR>

Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q1602	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1603	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1605	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1606	1-801-806-11	TRANSISTOR DTC144EKA-T146	
Q1608	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1609	8-729-216-22	TRANSISTOR 2SA1162-G	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
	<RESISTOR>				
R1600	1-216-295-91	SHORT	0		
R1601	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1602	1-216-025-91	RES,CHIP	100	5%	1/10W
R1603	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1604	1-216-025-91	RES,CHIP	100	5%	1/10W
R1605	1-216-025-91	RES,CHIP	100	5%	1/10W
R1606	1-216-025-91	RES,CHIP	100	5%	1/10W
R1607	1-216-025-91	RES,CHIP	100	5%	1/10W
R1608	1-216-025-91	RES,CHIP	100	5%	1/10W
R1609	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1610	1-216-295-91	SHORT	0		
R1611	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1612	1-216-017-91	RES,CHIP	47	5%	1/10W
R1613	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1614	1-216-017-91	RES,CHIP	47	5%	1/10W
R1615	1-216-025-91	RES,CHIP	100	5%	1/10W
R1616	1-216-017-91	RES,CHIP	47	5%	1/10W
R1617	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1618	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1619	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1621	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1622	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1623	1-216-295-91	SHORT	0		
R1624	1-216-025-91	RES,CHIP	100	5%	1/10W
R1625	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1626	1-216-025-91	RES,CHIP	100	5%	1/10W
R1627	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1628	1-216-025-91	RES,CHIP	100	5%	1/10W
R1629	1-216-025-91	RES,CHIP	100	5%	1/10W
R1630	1-216-025-91	RES,CHIP	100	5%	1/10W
R1631	1-216-025-91	RES,CHIP	100	5%	1/10W
R1632	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1633	1-216-295-91	SHORT	0		
R1634	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1635	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1636	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1637	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1638	1-216-025-91	RES,CHIP	100	5%	1/10W
R1639	1-216-017-91	RES,CHIP	47	5%	1/10W
R1640	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1641	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1643	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1644	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1645	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1646	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1647	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1648	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1649	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1650	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1651	1-216-083-00	RES,CHIP	27K	5%	1/10W
R1652	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1653	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1654	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1655	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1656	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1657	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1658	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1659	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1660	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1661	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1662	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1664	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1666	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1667	1-216-089-91	RES,CHIP	47K	5%	1/10W
	<CRYSTAL>				
X1600	1-578-689-21	VIBRATOR (8MHz)			
X1601	1-578-689-21	VIBRATOR (8MHz)			

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Rf.NO.	PART NO.	DESCRIPTION
	* 1-672-792-11	QD BOARD **********
	<CONNECTOR>	
CN1801	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P
	<SWITCH>	
S1801	1-570-134-11	SWITCH, SLIDE(IN/OUT(RGB IN/OUT))

****

Rf.NO.	PART NO.	DESCRIPTION
	* 1-668-125-11	U BOARD *********
	<CONNECTOR>	
CN4101	* 1-564-517-11	PLUG, CONNECTOR 2P
	<SWITCH>	
S4101	1-570-245-11	SWITCH, MICRO(LAMP)

****

Rf.NO.	PART NO.	DESCRIPTION
	* 1-668-124-11	V BOARD *********
	<CONNECTOR>	
CN4201	* 1-564-517-11	PLUG, CONNECTOR 2P
	<SWITCH>	
S4201	1-570-245-11	SWITCH, MICRO (FILTER)

****

Rf.NO.	PART NO.	DESCRIPTION	REMARK
	MISCELLANEOUS *****************		
	A-1501-336-A	POWER BLOCK	
	1-475-689-61	CONVERTE UNIT, SCAN (BB BOARD)	
	1-500-082-11	CLAMP, SLEEVE FERRITE	
	1-500-249-11	BEAD, FERRITE (CASE)	
	1-504-847-11	SPEAKER (2.8cm)	
	1-505-282-11	SPEAKER (057F006)	
	⚠1-526-954-11	INLET, AC	
	1-763-069-11	FAN, DC	
	1-763-070-11	FAN, DC	
	1-763-101-11	FAN, DC	

****

Rf.NO.	PART NO.	DESCRIPTION	REMARK
	ACCESSORIES ***************		
	1-475-735-51	REMOTE COMMANDER (RM-PJM600)	
	⚠1-557-377-11	CORD, POWER (3 CORE) 10A/125V (S900U)	
	1-575-334-11	CORD, CONNECTION (S900M/S900U)	
	1-774-626-11	ADAPTOR, CONVERSION	
	⚠1-777-649-11	CORD, POWER 10A/250V (S900E)	
	1-777-743-11	CABLE (15PDSUBX2 CONNECTOR)	
	⚠1-782-929-11	CORD, POWER SUPPLY (BS 3P) 10A/250V (S900M)	
	3-862-351-13	INSTALLATION MANUAL FOR DEALERS (ENGLISH/FRENCH/SPANISH)	
	3-862-351-33	INSTALLATION MANUAL FOR DEALERS (SIMPLIFIED CHINESE)(S900M)	
	3-862-351-23	INSTALLATION MANUAL FOR DEALERS (GERMAN/ITALIAN)(S900E)	
	3-865-632-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH)	
	3-865-632-21	MANUAL, INSTRUCTION (GERMAN/ITALIAN)(S900E)	
	3-865-632-31	MANUAL, INSTRUCTION (SIMPLIFIED CHINESE)(S900M)	
	4-063-684-01	FILTER	
	* X-4035-430-3	COVER ASSY, FRONT	

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RM-PJM600

Ref.No.	Part No.	Description	Remark
	1-475-735-51	REMOTE COMMANDER	
	9-880-535-01	BATTERY COVER (FOR RM-PJM600)	

IFB-X600E

Ref.No.	Part No.	Description	Remark
	* A-1275-152-A	QB BOARD, COMPLETE *****************************	
	<CONNECTOR>		
CN1501	* 1-766-383-11	PIN, CONNECTOR (1.5MM)(SMD)12P	
	<JACK>		
J1501	1-770-053-11	TERMINAL BLOCK, S(LIGHT ANGLE)	

****

Ref.No.	Part No.	Description	Remark
	ACCESSORIES AND PACKING MATERIALS **		
	1-575-334-11	CORD, CONNECTION	
	3-862-502-11	INSTALLATION MANUAL (E/F/G/S/I)	

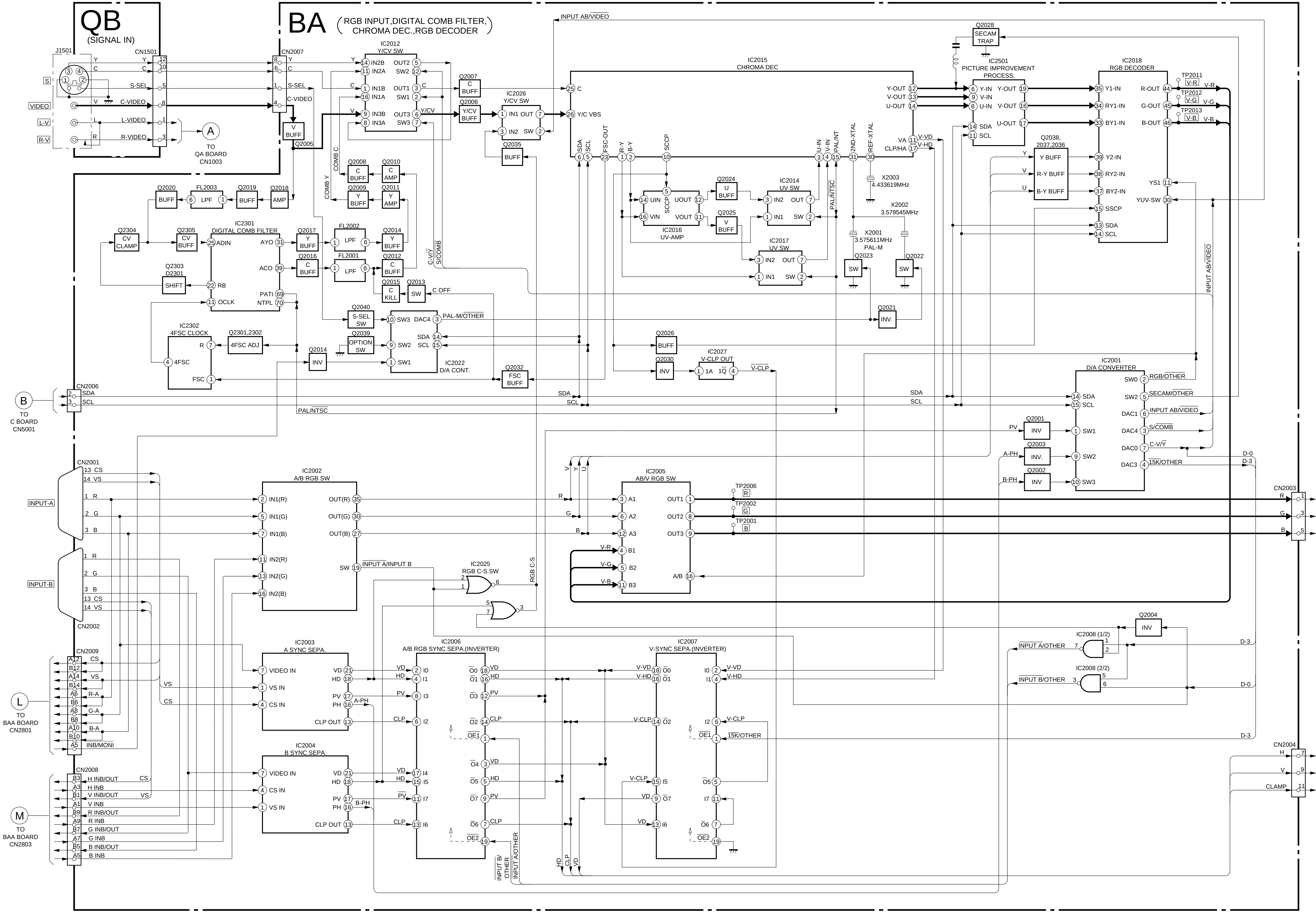
PSS-600

Ref.No.	Part No.	Description	Remark
	ACCESSORIES AND PACKING MATERIALS **		
	3-862-500-01	INSTALLATION MANUAL (J/E/F/G/S/I/C2)	
	4-047-742-01	NUT (M8), HEXAGON	
	4-047-743-01	WASHER, TOOTHED LOCK	
	4-047-744-01	PIN	
	4-047-746-01	BOLT (M8X50), HEXAGON	
	4-047-748-01	WASHER (M8), FLAT	
	4-047-765-01	SCREW (M4X6), +P	
	4-047-903-01	PIN, SNAP	
	4-063-982-01	BOLT (M5), HEXAGON HEAD	
	4-063-983-01	WASHER (M5), PLAIN	
	4-063-984-01	WASHER (M5), LOCK SPRING	
	* 4-063-985-01	BRACKET, PROJECTOR	

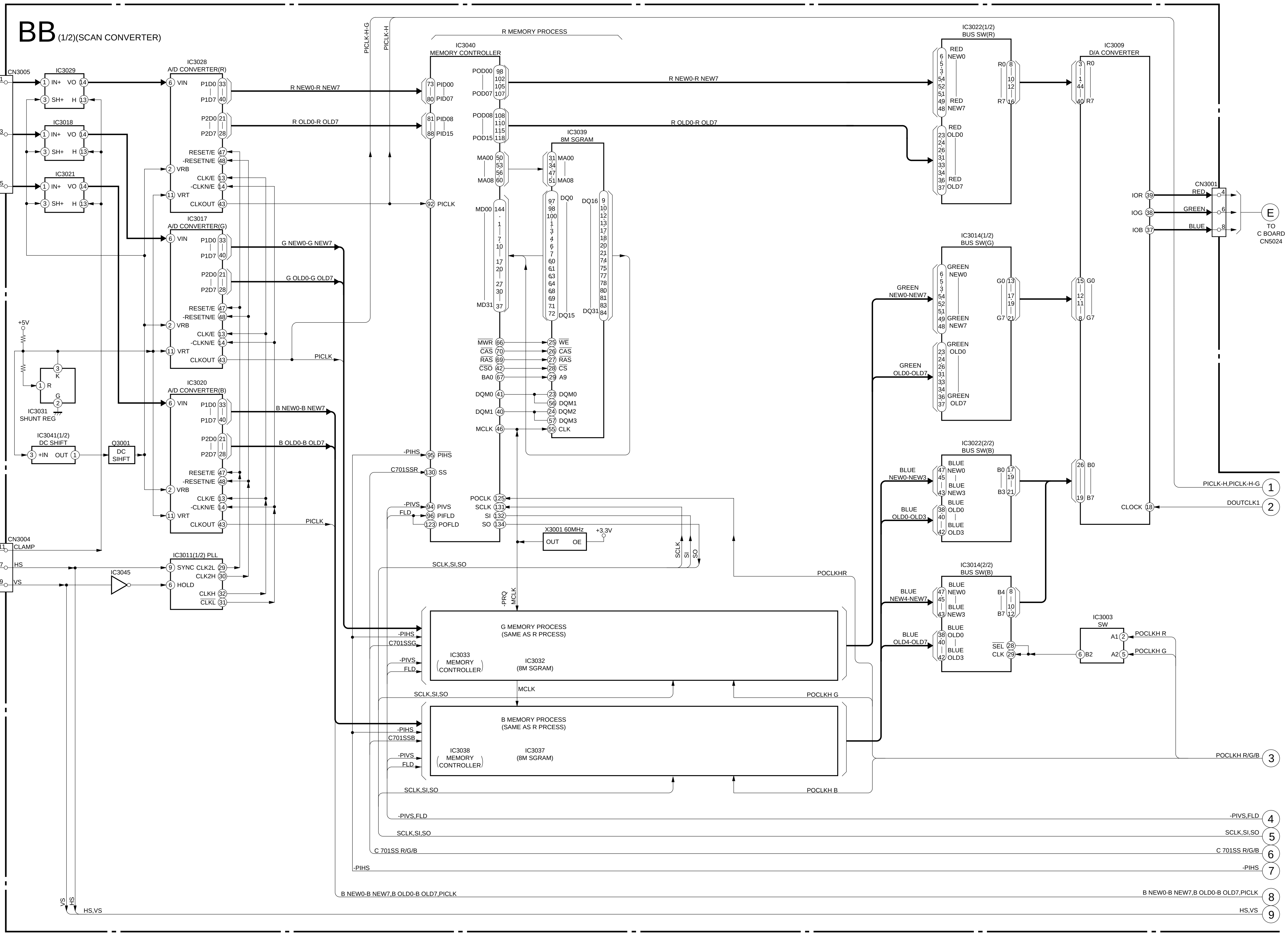
SECTION 7
BLOCK DIAGRAMS

7-1. BA, QB BOARD BLOCK DIAGRAM

(VPL-S900M/S900U only)

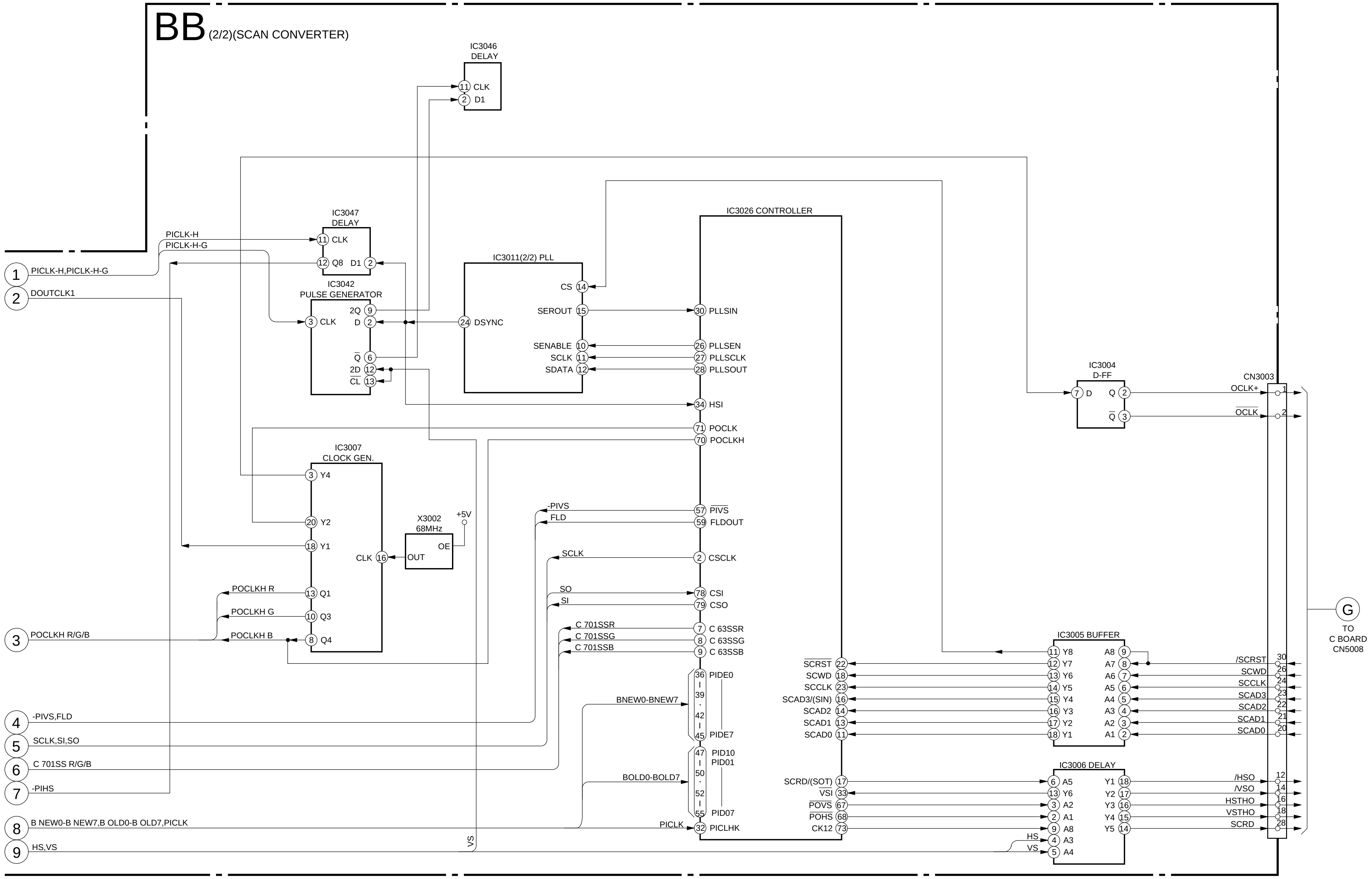

QB
(SIGNAL IN)
J1501
CN1501
S
VIDEO
L-V
R-V
Y
C
S-SEL
V
C-VIDEO
L-VIDEO
R-VIDEO
A
TO
QA BOARD
CN1003
BA
(RGB INPUT,DIGITAL COMB FILTER,
CHROMA DEC.,RGB DECODER)
CN2007
V BUFF
Q2005
INPUT AB/VIDEO
IC2012
Y/CV SW
IN2B
IN2A
IN1B
IN1A
IN3B
IN3A
OUT2
SW2
OUT1
SW1
OUT3
SW3
Q2007
C BUFF
Q2006
Y/CV BUFF
IC2026
Y/CV SW
IN1 OUT
IN2 SW
Q2035
BUFF
IC2015
CHROMA DEC
Y/C VBS
SDA
SCL
FSC-OUT
R-Y
B-Y
SCCP
U-IN
V-IN
PAL/NT
2ND-XTAL
REF-XTAL
Y-OUT
V-OUT
U-OUT
VA
CLP/HA
V-VD
V-HD
Q2028
SECAM TRAP
IC2501
PICTURE IMPROVEMENT PROCESS.
Y-IN
V-IN
U-IN
Y-OUT
V-OUT
U-OUT
Q2038, 2037,2036
Y BUFF
R-Y BUFF
B-Y BUFF
IC2018
RGB DECODER
Y1-IN
RY1-IN
BY1-IN
Y2-IN
RY2-IN
BY2-IN
SSCP
R-OUT
G-OUT
B-OUT
YS1
YUV-SW
TP2011
V-R
TP2012
V-G
TP2013
V-B
COMB C
COMB Y
Q2008
C BUFF
Q2010
C AMP
Q2009
Y BUFF
Q2011
Y AMP
Q2020
BUFF
FL2003
LPF
Q2019
BUFF
Q2018
AMP
IC2016
UV-AMP
UIN
VIN
UOUT
VOUT
Q2024
U BUFF
Q2025
V BUFF
IC2014
UV SW
IC2017
UV SW
X2003
4.433619MHz
X2002
3.579545MHz
X2001
3.575611MHz
PAL-M
Q2023
SW
Q2022
SW
Q2021
INV.
IC2301
DIGITAL COMB FILTER
Q2304
CV CLAMP
Q2305
CV BUFF
ADIN
AYO
ACO
RB
OCLK
PATI
NTPL
Q2303
D2301
SHIFT
Q2017
Y BUFF
FL2002
LPF
Q2014
Y BUFF
Q2016
C BUFF
FL2001
LPF
Q2012
C BUFF
Q2015
C KILL
Q2013
SW
C OFF
C-V/Y
S/COMB
Q2040
S-SEL SW
Q2039
OPTION SW
IC2022
D/A CONT.
SW3
SW2
SW1
DAC4
PAL-M/OTHER
IC2302
4FSC CLOCK
Q2301,2302
4FSC ADJ
4FSC
FSC
Q2014
INV
Q2032
FSC BUFF
Q2026
BUFF
Q2030
INV
IC2027
V-CLP OUT
V-CLP
IC2001
D/A CONVERTER
SW0
RGB/OTHER
SECAM/OTHER
INPUT AB/VIDEO
S/COMB
C-V/Y
15K/OTHER
DAC1
DAC4
DAC0
DAC3
Q2001
INV
Q2003
INV.
Q2002
INV
PV
A-PH
B-PH
D-0
D-3
B
TO
C BOARD
CN5001
CN2006
SDA
SCL
PAL/NTSC
CN2001
INPUT-A
INPUT-B
CS
VS
R
G
B
CN2002
IC2002
A/B RGB SW
IN1(R)
IN1(G)
IN1(B)
IN2(R)
IN2(G)
IN2(B)
OUT(R)
OUT(G)
OUT(B)
SW
INPUT A/INPUT B
IC2025
RGB C-S SW
RGB C-S
IC2005
AB/V RGB SW
A1
A2
A3
B1
B2
B3
OUT1
OUT2
OUT3
A/B
TP2006
TP2002
TP2001
CN2003
C
TO
BB BOARD
CN3005
Q2004
INV
IC2008 (1/2)
IC2008 (2/2)
INPUT A/OTHER
INPUT B/OTHER
CN2009
L
TO
BAA BOARD
CN2801
R-A
G-A
B-A
INB/MONI
CN2008
M
TO
BAA BOARD
CN2803
H INB/OUT
H INB
V INB/OUT
V INB
R INB/OUT
R INB
G INB/OUT
G INB
B INB/OUT
B INB
IC2003
A SYNC SEPA.
VIDEO IN
VS IN
CS IN
VD
HD
PV
PH
CLP OUT
IC2004
B SYNC SEPA.
IC2006
A/B RGB SYNC SEPA.(INVERTER)
IC2007
V-SYNC SEPA.(INVERTER)
INPUT B/OTHER
INPUT A/OTHER
HD
CLP
VD
CN2004
H
V
CLAMP
D
TO
BB BOARD
CN3004

7-2. BB BOARD BLOCK DIAGRAM (1/2)

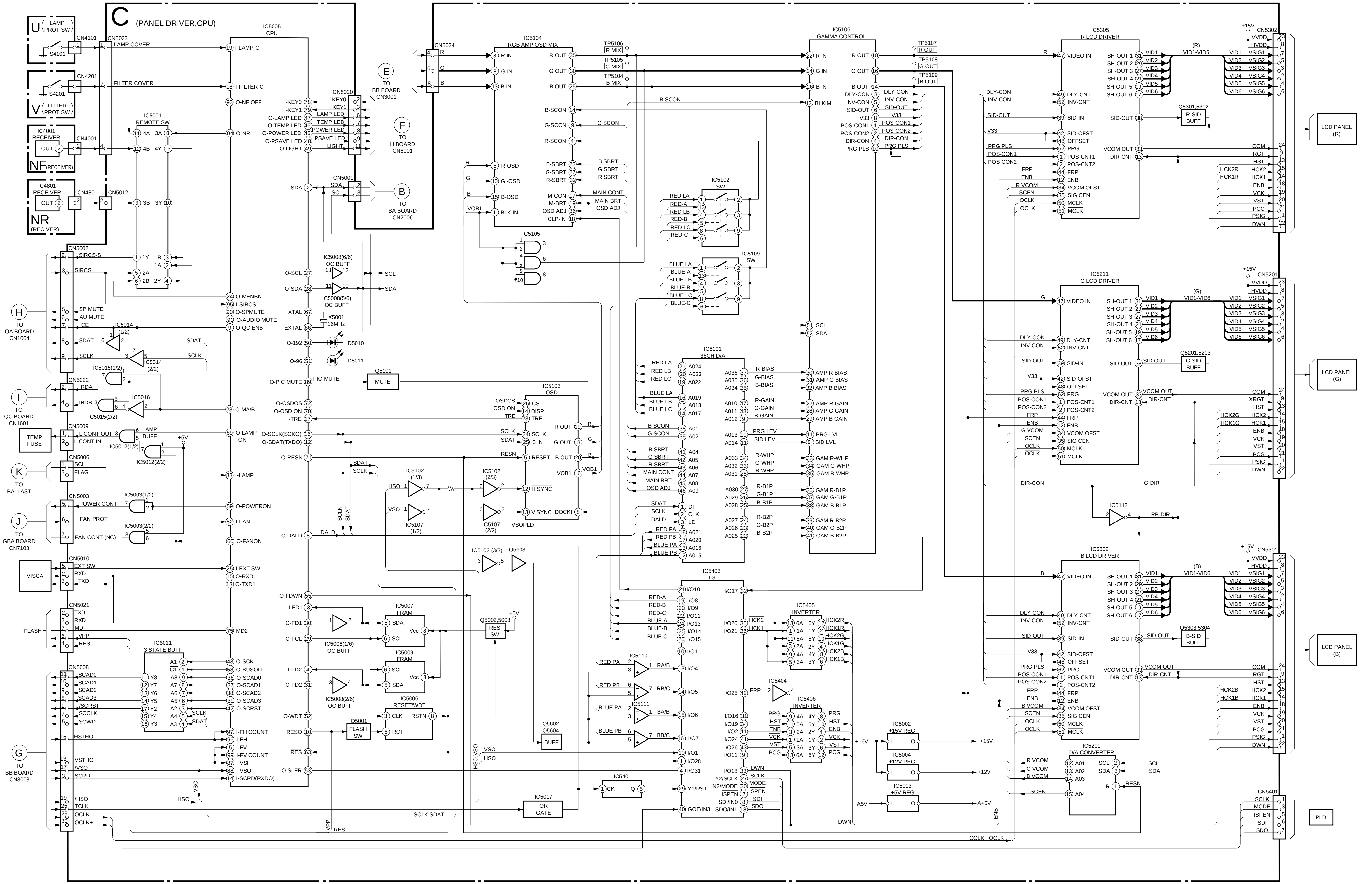

BB (1/2)(SCAN CONVERTER)
CN3005
IC3029
IN+ VO
SH+ H
IC3018
IC3021
C
TO BA BOARD CN2003
IC3028 A/D CONVERTER(R)
VIN
P1D0 P1D7
P2D0 P2D7
RESET/E
-RESETN/E
VRB
CLK/E
-CLKN/E
VRT
CLKOUT
R NEW0-R NEW7
R OLD0-R OLD7
IC3017 A/D CONVERTER(G)
G NEW0-G NEW7
G OLD0-G OLD7
PICLK
IC3020 A/D CONVERTER(B)
B NEW0-B NEW7
B OLD0-B OLD7
+5V
IC3031 SHUNT REG
K
R
G
IC3041(1/2) DC SHIFT
+IN OUT
Q3001 DC SIHFT
CN3004
CLAMP
HS
VS
D
TO BA BOARD CN2004
IC3045
IC3011(1/2) PLL
SYNC CLK2L
HOLD
CLK2H
CLKH
CLKL
PICLK-H-G
PICLK-H
R MEMORY PROCESS
IC3040 MEMORY CONTROLLER
POD00 POD07
POD08 POD15
PID00 PID07
PID08 PID15
MA00 MA08
MD00 MD31
MWR
CAS
RAS
CSO
BA0
DQM0
DQM1
MCLK
IC3039 8M SGRAM
MA00 MA08
DQ0 DQ15
DQ16 DQ31
WE
CAS
RAS
CS
A9
DQM0 DQM1 DQM2 DQM3
CLK
-PIHS
PIHS
C701SSR
SS
-PIVS
PIVS
FLD
PIFLD
POFLD
POCLK
SCLK
SI
SO
X3001 60MHz
OUT OE
+3.3V
SCLK,SI,SO
POCLKHR
-PRQ
MCLK
G MEMORY PROCESS (SAME AS R PRCESS)
IC3033 MEMORY CONTROLLER
IC3032 (8M SGRAM)
-PIHS
C701SSG
-PIVS
FLD
POCLKH G
B MEMORY PROCESS (SAME AS R PRCESS)
IC3038 MEMORY CONTROLLER
IC3037 (8M SGRAM)
C701SSB
POCLKH B
IC3022(1/2) BUS SW(R)
RED NEW0
RED NEW7
RED OLD0
RED OLD7
R0 R7
IC3009 D/A CONVERTER
R0 R7
G0 G7
B0 B7
IOR
IOG
IOB
CN3001
RED
GREEN
BLUE
E
TO C BOARD CN5024
IC3014(1/2) BUS SW(G)
GREEN NEW0-NEW7
GREEN OLD0-OLD7
IC3022(2/2) BUS SW(B)
BLUE NEW0-NEW3
BLUE OLD0-OLD3
B0 B3
IC3014(2/2) BUS SW(B)
BLUE NEW4-NEW7
BLUE OLD4-OLD7
B4 B7
SEL
CLK
IC3003 SW
A1
A2
B2
POCLKH R
POCLKH G
CLOCK
PICLK-H,PICLK-H-G ①
DOUTCLK1 ②
POCLKH R/G/B ③
-PIVS,FLD ④
SCLK,SI,SO ⑤
C 701SS R/G/B ⑥
-PIHS ⑦
B NEW0-B NEW7,B OLD0-B OLD7,PICLK ⑧
HS,VS ⑨

http://getMANUAL.com

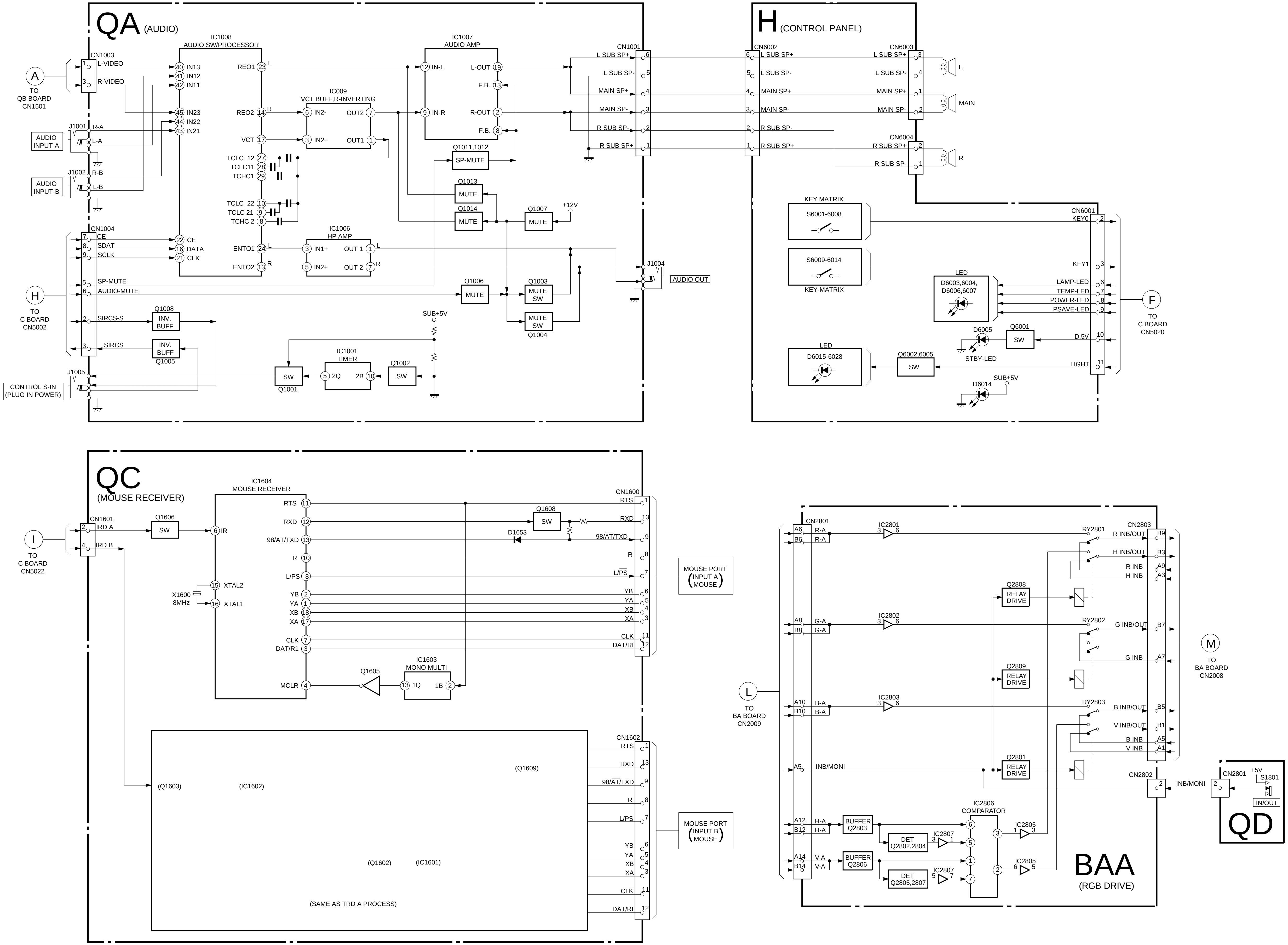
7-3. BB BOARD BLOCK DIAGRAM (2/2)


BB (2/2)(SCAN CONVERTER)
IC3046 DELAY
11 CLK
2 D1
IC3047 DELAY
11 CLK
12 Q8
D1 2
PICLK-H
PICLK-H-G
1 PICLK-H,PICLK-H-G
2 DOUTCLK1
IC3042 PULSE GENERATOR
3 CLK
2Q 9
D 2
Q 6
2D 12
CL 13
IC3011(2/2) PLL
CS 14
SEROUT 15
24 DSYNC
SENABLE 10
SCLK 11
SDATA 12
IC3026 CONTROLLER
30 PLLSIN
26 PLLSEN
27 PLLSCLK
28 PLLSOUT
34 HSI
71 POCLK
70 POCLKH
57 PIVS
59 FLDOUT
2 CSCLK
78 CSI
79 CSO
7 C 63SSR
8 C 63SSG
9 C 63SSB
36 PIDE0
39
42
45 PIDE7
47 PID10
PID01
50
52
55 PID07
32 PICLHK
SCRST 22
SCWD 18
SCCLK 23
SCAD3/(SIN) 16
SCAD2 14
SCAD1 13
SCAD0 11
SCRD/(SOT) 17
VSI 33
POVS 67
POHS 68
CK12 73
IC3007 CLOCK GEN.
3 Y4
20 Y2
18 Y1
CLK 16
13 Q1
10 Q3
8 Q4
X3002 68MHz
OE
OUT
+5V
POCLKH R
POCLKH G
POCLKH B
3 POCLKH R/G/B
-PIVS
FLD
SCLK
SO
SI
C 701SSR
C 701SSG
C 701SSB
BNEW0-BNEW7
BOLD0-BOLD7
PICLK
4 -PIVS,FLD
5 SCLK,SI,SO
6 C 701SS R/G/B
7 -PIHS
8 B NEW0-B NEW7,B OLD0-B OLD7,PICLK
9 HS,VS
VS
IC3004 D-FF
7 D
Q 2
Q 3
CN3003
OCLK+ 1
OCLK 2
IC3005 BUFFER
11 Y8
12 Y7
13 Y6
14 Y5
15 Y4
16 Y3
17 Y2
18 Y1
A8 9
A7 8
A6 7
A5 6
A4 5
A3 4
A2 3
A1 2
/SCRST 30
SCWD 26
SCCLK 24
SCAD3 23
SCAD2 22
SCAD1 21
SCAD0 20
IC3006 DELAY
6 A5
13 Y6
3 A2
2 A1
9 A8
4 A3
5 A4
HS
VS
Y1 18
Y2 17
Y3 16
Y4 15
Y5 14
/HSO 12
/VSO 14
HSTHO 16
VSTHO 18
SCRD 28
G
TO C BOARD CN5008

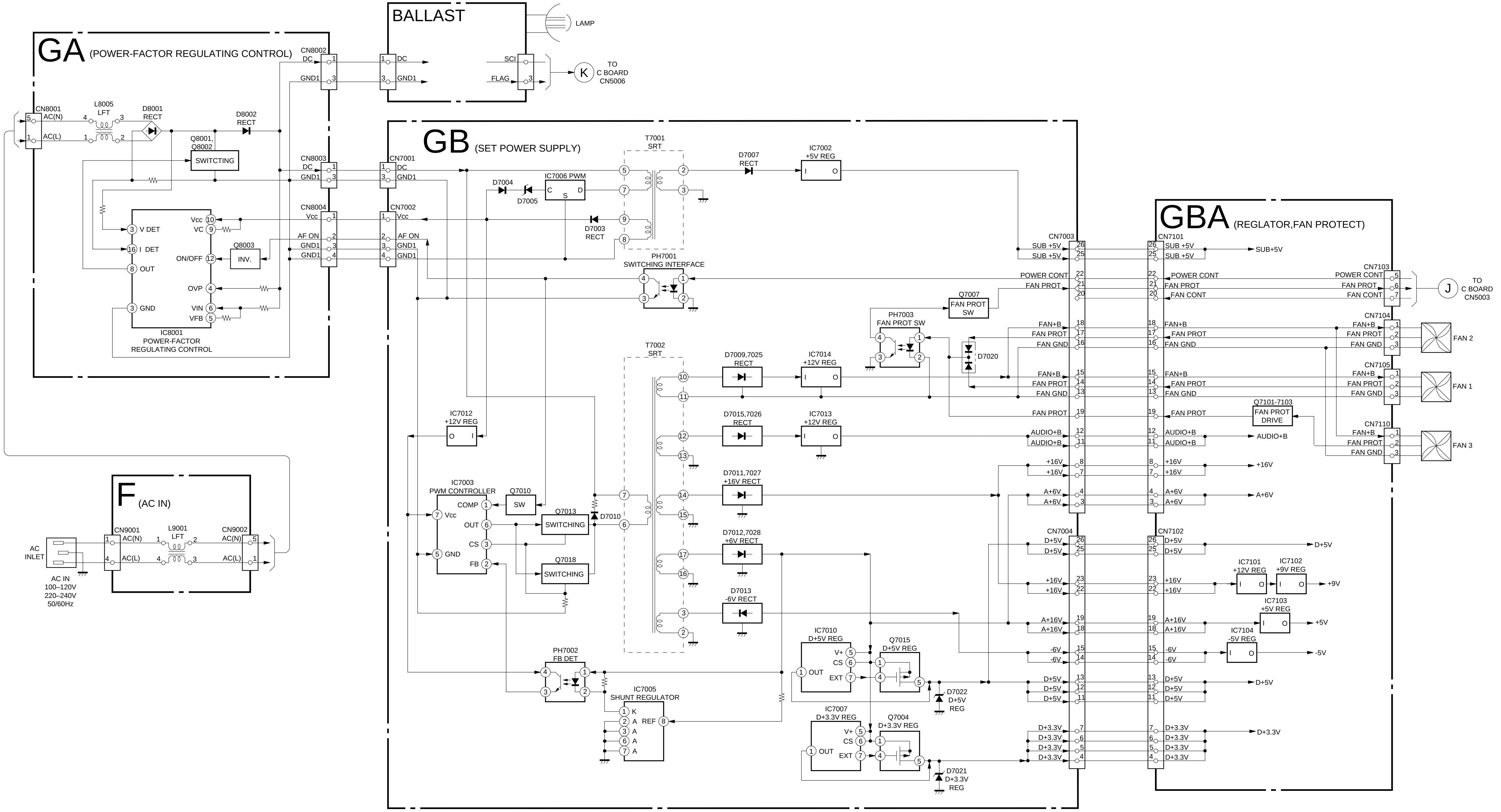
7-4. C, NF, NR, U and V BOARD BLOCK DIAGRAM


C (PANEL DRIVER,CPU)
U LAMP PROT SW
S4101
CN4101
V FLITER PROT SW
S4201
CN4201
IC4001 RECEIVER
CN4001
NF (RECEIVER)
IC4801 RECEIVER
CN4801
NR (RECIVER)
CN5023
LAMP COVER
FILTER COVER
CN5012
IC5001 REMOTE SW
IC5005 CPU
I-LAMP-C
I-FILTER-C
O-NF OFF
O-NR
I-KEY0
I-KEY1
O-LAMP LED
O-TEMP LED
O-POWER LED
O-PSAVE LED
O-LIGHT
I-SDA
O-SCL
O-SDA
XTAL
EXTAL
X5001 16MHz
O-192
O-96
D5010
D5011
O-PIC MUTE
Q5101 MUTE
O-OSDOS
O-OSD ON
I-TRE
O-SCLK(SCKO)
O-SDAT(TXDO)
O-RESN
O-DALD
O-FDWN
I-FD1
O-FD1
O-FCL
I-FD2
O-FD2
O-WDT
RESO
RES
O-SLFR
IC5008(6/6) OC BUFF
IC5008(5/6) OC BUFF
IC5008(1/6) OC BUFF
IC5008(2/6) OC BUFF
IC5007 FRAM
IC5009 FRAM
IC5006 RESET/WDT
Q5001 FLASH SW
Q5002,5003 RES SW
+5V
CN5020
KEY0
KEY1
LAMP LED
TEMP LED
POWER LED
PSAVE LED
LIGHT
E TO BB BOARD CN3001
F TO H BOARD CN6001
CN5001
B TO BA BOARD CN2006
CN5024
IC5104 RGB AMP,OSD MIX
R IN
G IN
B IN
R OUT
G OUT
B OUT
B-SCON
G-SCON
R-SCON
R-OSD
G -OSD
B-OSD
BLK IN
B-SBRT
G-SBRT
R-SBRT
M-CON
M-BRT
OSD ADJ
CLP-IN
TP5106 R MIX
TP5105 G MIX
TP5104 B MIX
IC5105
IC5102 SW
IC5109 SW
IC5101 36CH D/A
IC5103 OSD
IC5102 (1/3)
IC5107 (1/2)
IC5102 (2/3)
IC5107 (2/2)
IC5102 (3/3)
Q5603
Q5602 Q5604 BUFF
H SYNC
V SYNC
VSOPLD
DOCKI
IC5106 GAMMA CONTROL
BLKIM
DLY-CON
INV-CON
SID-OUT
V33
POS-CON1
POS-CON2
DIR-CON
PRG PLS
TP5107 R OUT
TP5108 G OUT
TP5109 B OUT
AMP R BIAS
AMP G BIAS
AMP B BIAS
AMP R GAIN
AMP G GAIN
AMP B GAIN
PRG LVL
SID LVL
GAM R-WHP
GAM G-WHP
GAM B-WHP
GAM R-B1P
GAM G-B1P
GAM B-B1P
GAM R-B2P
GAM G-B2P
GAM B-B2P
IC5403 TG
IC5405 INVERTER
IC5406 INVERTER
IC5404
IC5110
IC5111
IC5401
IC5017 OR GATE
IC5002 +15V REG
IC5004 +12V REG
IC5013 +5V REG
+16V
+15V
+12V
A5V
A+5V
IC5305 R LCD DRIVER
IC5211 G LCD DRIVER
IC5302 B LCD DRIVER
VIDEO IN
SH-OUT 1
SH-OUT 2
SH-OUT 3
SH-OUT 4
SH-OUT 5
SH-OUT 6
SID-OFST
OFFSET
PRG
POS-CNT1
POS-CNT2
FRP
ENB
VCOM OFST
SIG CEN
MCLK
VCOM OUT
DIR-CNT
Q5301,5302 R-SID BUFF
Q5201,5203 G-SID BUFF
Q5303,5304 B-SID BUFF
IC5112
RB-DIR
G-DIR
IC5201 D/A CONVERTER
R VCOM
G VCOM
B VCOM
CN5302
CN5201
CN5301
(R) VID1-VID6
(G) VID1-VID6
(B) VID1-VID6
VVDD
HVDD
VSIG1
VSIG2
VSIG3
VSIG4
VSIG5
VSIG6
COM
RGT
XRGT
HST
HCK2
HCK1
VCK
VST
PCG
PSIG
DWN
LCD PANEL (R)
LCD PANEL (G)
LCD PANEL (B)
CN5401
SCLK
MODE
ISPEN
SDI
SDO
PLD
CN5002
SIRCS-S
SIRCS
SP MUTE
AU MUTE
CE
SDAT
SCLK
H TO QA BOARD CN1004
IC5014 (1/2)
IC5014 (2/2)
IC5015(1/2)
IC5015(2/2)
IC5016
CN5022
IRDA
IRDB
I TO QC BOARD CN1601
CN5009
TEMP FUSE
L CONT OUT
L CONT IN
LAMP BUFF
IC5012(1/2)
IC5012(2/2)
CN5006
SCI
FLAG
K TO BALLAST
CN5003
POWER CONT
FAN PROT
FAN CONT (NC)
IC5003(1/2)
IC5003(2/2)
J TO GBA BOARD CN7103
CN5010
EXT SW
RXD
TXD
VISCA
CN5021
MD
VPP
FLASH
IC5011 3 STATE BUFF
CN5008
SCAD0
SCAD1
SCAD2
SCAD3
/SCRST
SCCLK
SCWD
HSTHO
VSTHO
/VSO
SCRD
/HSO
TCLK
OCLK
OCLK+
G TO BB BOARD CN3003
O-MENBN
I-SIRCS
O-SPMUTE
O-AUDIO MUTE
O-QC ENB
O-MA/B
O-LAMP ON
I-LAMP
O-POWERON
I-FAN
O-FANON
I-EXT SW
O-RXD1
O-TXD1
MD2
O-SCK
O-BUSOFF
O-SCAD0
O-SCAD1
O-SCAD2
O-SCAD3
O-SCRST
I-FH COUNT
I-FH
I-FV
I-FV COUNT
I-VSI
I-VSO
I-SCRD(RXDO)
SCLK,SDAT
HSO,VSO
VPP
RES
OCLK+,OCLK

7-5. BAA, H, QA and QC BOARD BLOCK DIAGRAM

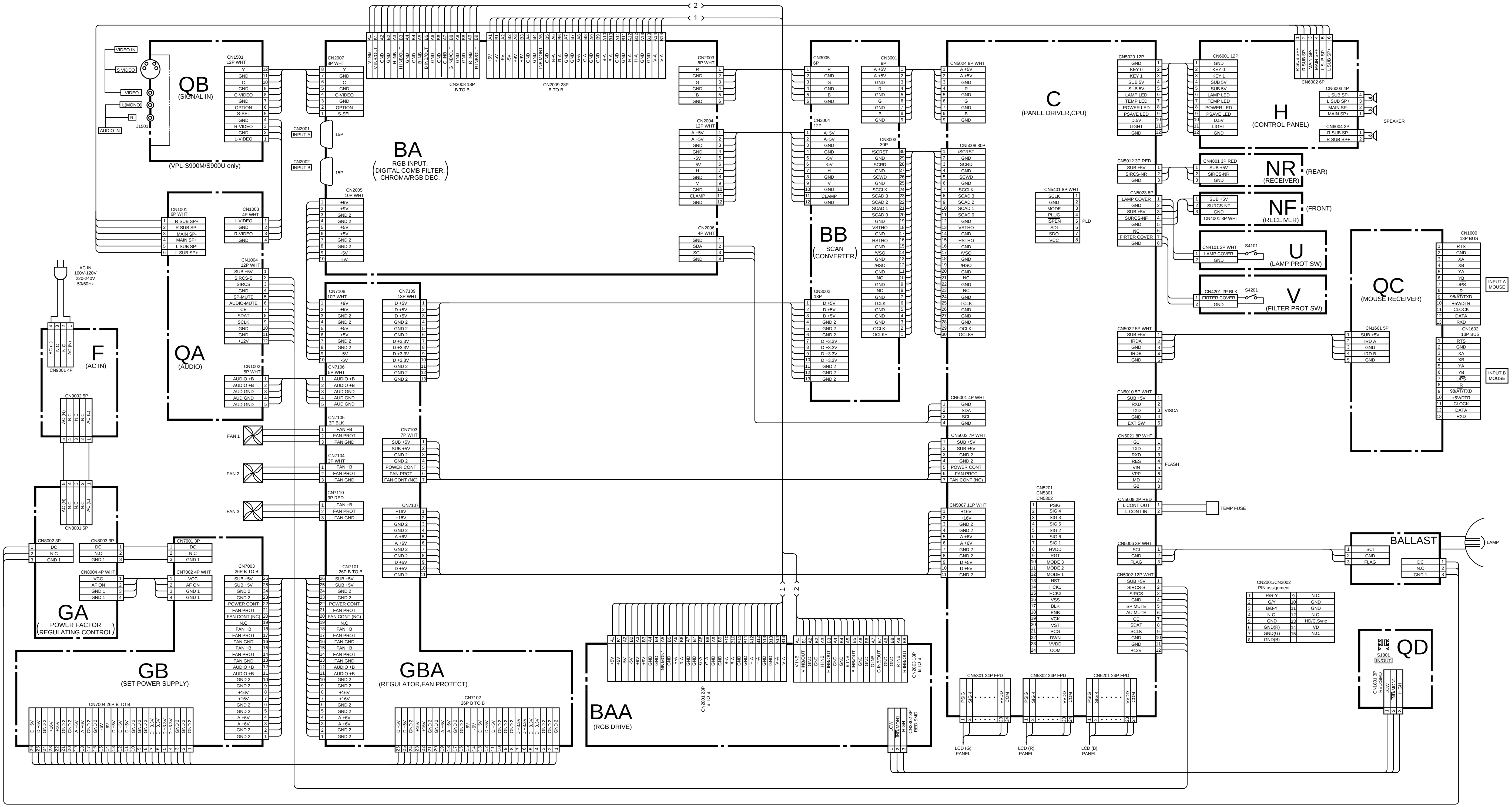

QA (AUDIO)
IC1008 AUDIO SW/PROCESSOR
IC1007 AUDIO AMP
IC009 VCT BUFF,R-INVERTING
IC1006 HP AMP
IC1001 TIMER
CN1003
L-VIDEO
R-VIDEO
A
TO QB BOARD CN1501
J1001
R-A
L-A
AUDIO INPUT-A
J1002
R-B
L-B
AUDIO INPUT-B
CN1004
CE
SDAT
SCLK
SP-MUTE
AUDIO-MUTE
SIRCS-S
SIRCS
H
TO C BOARD CN5002
J1005
CONTROL S-IN (PLUG IN POWER)
IN13
IN12
IN11
IN23
IN22
IN21
REO1
REO2
VCT
TCLC 12
TCLC11
TCHC1
TCLC 22
TCLC 21
TCHC 2
CE
DATA
CLK
ENTO1
ENTO2
IN2-
OUT2
IN2+
OUT1
IN1+
OUT 1
OUT 2
IN-L
L-OUT
F.B.
IN-R
R-OUT
Q1011,1012
SP-MUTE
Q1013
MUTE
Q1014
MUTE
Q1007
MUTE
+12V
Q1006
MUTE
Q1003
MUTE SW
Q1004
MUTE SW
Q1008
INV. BUFF
Q1005
INV. BUFF
SUB+5V
Q1001
SW
2Q
2B
Q1002
SW
CN1001
L SUB SP+
L SUB SP-
MAIN SP+
MAIN SP-
R SUB SP-
R SUB SP+
J1004
AUDIO OUT
H (CONTROL PANEL)
CN6002
CN6003
L
MAIN
CN6004
R
KEY MATRIX
S6001-6008
S6009-6014
KEY-MATRIX
LED
D6003,6004, D6006,6007
D6005
Q6001
SW
STBY-LED
LED
D6015-6028
Q6002,6005
SW
SUB+5V
D6014
CN6001
KEY0
KEY1
LAMP-LED
TEMP-LED
POWER-LED
PSAVE-LED
D.5V
LIGHT
F
TO C BOARD CN5020
QC (MOUSE RECEIVER)
IC1604 MOUSE RECEIVER
I
TO C BOARD CN5022
CN1601
IRD A
IRD B
Q1606
SW
IR
X1600 8MHz
XTAL2
XTAL1
RTS
RXD
98/AT/TXD
R
L/PS
YB
YA
XB
XA
CLK
DAT/R1
MCLR
Q1605
IC1603 MONO MULTI
1Q
1B
Q1608
SW
D1653
CN1600
RTS
RXD
98/AT/TXD
R
L/PS
YB
YA
XB
XA
CLK
DAT/RI
MOUSE PORT (INPUT A MOUSE)
(Q1603)
(IC1602)
(Q1609)
(Q1602)
(IC1601)
(SAME AS TRD A PROCESS)
CN1602
MOUSE PORT (INPUT B MOUSE)
L
TO BA BOARD CN2009
CN2801
R-A
G-A
B-A
INB/MONI
H-A
V-A
IC2801
IC2802
IC2803
Q2808 RELAY DRIVE
Q2809 RELAY DRIVE
Q2801 RELAY DRIVE
RY2801
RY2802
RY2803
CN2803
R INB/OUT
H INB/OUT
R INB
H INB
G INB/OUT
G INB
B INB/OUT
V INB/OUT
B INB
V INB
M
TO BA BOARD CN2008
BUFFER Q2803
BUFFER Q2806
DET Q2802,2804
DET Q2805,2807
IC2807
IC2806 COMPARATOR
IC2805
BAA (RGB DRIVE)
CN2802
INB/MONI
CN2801
+5V
S1801
IN/OUT
QD

7-6. F, GA, GB and GBA BOARD BLOCK DIAGRAM


BALLAST
LAMP
DC
GND1
SCI
FLAG
K
TO C BOARD CN5006
GA (POWER-FACTOR REGULATING CONTROL)
CN8001
AC(N)
AC(L)
L8005 LFT
D8001 RECT
D8002 RECT
Q8001, Q8002
SWITCTING
CN8002
CN8003
CN8004
Vcc
AF ON
V DET
I DET
OUT
GND
VC
ON/OFF
Q8003
INV.
OVP
VIN
VFB
IC8001 POWER-FACTOR REGULATING CONTROL
GB (SET POWER SUPPLY)
CN7001
CN7002
T7001 SRT
D7004
D7005
IC7006 PWM
D7003 RECT
D7007 RECT
IC7002 +5V REG
PH7001 SWITCHING INTERFACE
T7002 SRT
D7009,7025 RECT
IC7014 +12V REG
D7015,7026 RECT
IC7013 +12V REG
D7011,7027 +16V RECT
D7012,7028 +6V RECT
D7013 -6V RECT
IC7012 +12V REG
IC7003 PWM CONTROLLER
COMP
Vcc
OUT
CS
FB
Q7010 SW
Q7013 SWITCHING
Q7018 SWITCHING
D7010
PH7002 FB DET
IC7005 SHUNT REGULATOR
K
A
REF
IC7010 D+5V REG
V+
EXT
Q7015 D+5V REG
D7022 D+5V REG
IC7007 D+3.3V REG
Q7004 D+3.3V REG
D7021 D+3.3V REG
PH7003 FAN PROT SW
Q7007 FAN PROT SW
D7020
CN7003
CN7004
SUB +5V
POWER CONT
FAN PROT
FAN+B
FAN GND
AUDIO+B
+16V
A+6V
D+5V
A+16V
-6V
D+3.3V
GBA (REGLATOR,FAN PROTECT)
CN7101
CN7102
CN7103
CN7104
CN7105
CN7110
FAN CONT
SUB+5V
J
TO C BOARD CN5003
FAN 2
FAN 1
FAN 3
Q7101-7103 FAN PROT DRIVE
IC7101 +12V REG
IC7102 +9V REG
+9V
IC7103 +5V REG
+5V
IC7104 -5V REG
-5V
F (AC IN)
CN9001
L9001 LFT
CN9002
AC INLET
AC IN 100–120V 220–240V 50/60Hz

SECTION 8
DIAGRAMS

8-1. FRAME SCHEMATIC DIAGRAM


QB
(SIGNAL IN)
(VPL-S900M/S900U only)
VIDEO IN
S VIDEO
VIDEO
L(MONO)
R
AUDIO IN
J1501
CN1501 12P WHT
BA
(RGB INPUT, DIGITAL COMB FILTER, CHROMA/RGB DEC.)
CN2001 INPUT A
CN2002 INPUT B
15P
CN2007 8P WHT
CN2008 18P B TO B
CN2009 28P B TO B
CN2003 6P WHT
CN2004 12P WHT
CN2005 10P WHT
CN2006 4P WHT
QA
(AUDIO)
CN1001 6P WHT
CN1003 4P WHT
CN1004 12P WHT
CN1002 5P WHT
AC IN 100V-120V 220-240V 50/60Hz
F
(AC IN)
CN9001 4P
CN9002 5P
CN8001 5P
GA
POWER FACTOR REGULATING CONTROL
CN8002 3P
CN8003 3P
CN8004 4P WHT
CN7001 3P
CN7002 4P WHT
GB
(SET POWER SUPPLY)
CN7003 26P B TO B
CN7004 26P B TO B
GBA
(REGULATOR,FAN PROTECT)
CN7101 26P B TO B
CN7102 26P B TO B
CN7103 7P WHT
CN7104 3P WHT
CN7105 3P BLK
CN7106 5P WHT
CN7107
CN7108 10P WHT
CN7109 13P WHT
CN7110 3P RED
FAN 1
FAN 2
FAN 3
BAA
(RGB DRIVE)
CN2801 28P B TO B
CN2803 18P B TO B
CN2802 3P RED SMD
BB
SCAN CONVERTER
CN3005 6P
CN3001 9P
CN3004 12P
CN3003 30P
CN3002 13P
C
(PANEL DRIVER,CPU)
CN5024 9P WHT
CN5008 30P
CN5401 8P WHT
PLD
CN5001 4P WHT
CN5003 7P WHT
CN5007 11P WHT
CN5201 CN5301 CN5302
CN5301 24P FPD
CN5302 24P FPD
CN5201 24P FPD
LCD (G) PANEL
LCD (R) PANEL
LCD (B) PANEL
CN5020 12P
CN5012 3P RED
CN5023 8P
CN5022 5P WHT
CN5010 5P WHT
VISCA
CN5021 8P WHT
FLASH
CN5009 2P RED
TEMP FUSE
CN5006 3P WHT
CN5002 12P WHT
H
(CONTROL PANEL)
CN6001 12P
CN6002 6P
CN6003 4P
CN6004 2P
SPEAKER
NR
(RECEIVER)
(REAR)
CN4801 3P RED
NF
(RECEIVER)
(FRONT)
CN4001 3P WHT
U
(LAMP PROT SW)
CN4101 2P WHT
S4101
V
(FILTER PROT SW)
CN4201 2P BLK
S4201
QC
(MOUSE RECEIVER)
CN1600 13P BUS
CN1601 5P
CN1602 13P BUS
INPUT A MOUSE
INPUT B MOUSE
BALLAST
LAMP
CN2001/CN2002 PIN assignment
QD
S1801 IN/OUT
CN1801 3P RED SMD
1
2

1	R/R-Y	9	N.C.
2	G/Y	10	GND
3	B/B-Y	11	GND
4	N.C.	12	N.C.
5	GND	13	HD/C Sync
6	GND(R)	14	VD
7	GND(G)	15	N.C.
8	GND(B)		

8-2. SCHEMATIC DIAGRAMS/PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4W

- All resistors are in ohms. (1M: 1000kΩ, 1k: 1000Ω)
- : nonflammable resistor.
- Chip resister are 1/10W unless otherwise noted.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- METAL CHIP (:RN, :RN-CP) resister in 1%, 0.5%, 1/4W unless otherwise specified.
- The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated, If results do not meet the specified value change the component identified by ⧓ and repeat the adjustment until the specified value is achieved. (Refer to page 4-1 and 4-2.)
- All voltages are in V.
- Reading are taken with Component color-bar signal (R.G.B SYNC) input.
- Voltage are dc with respect to ground unless otherwise noted.
- no mark : 14G1/14G5 series and comon
  ( ) : 20G1 series
- Voltage variation may be noted due to normal production tolerancd.
- : B+, B– line
- ⇨ : signal path
- Circled numbers are waveforms reference.

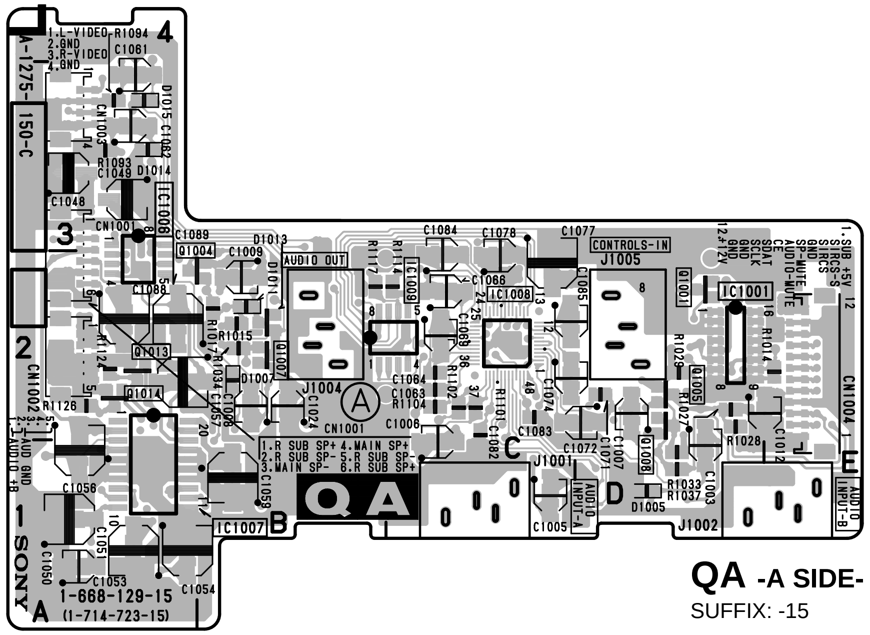
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

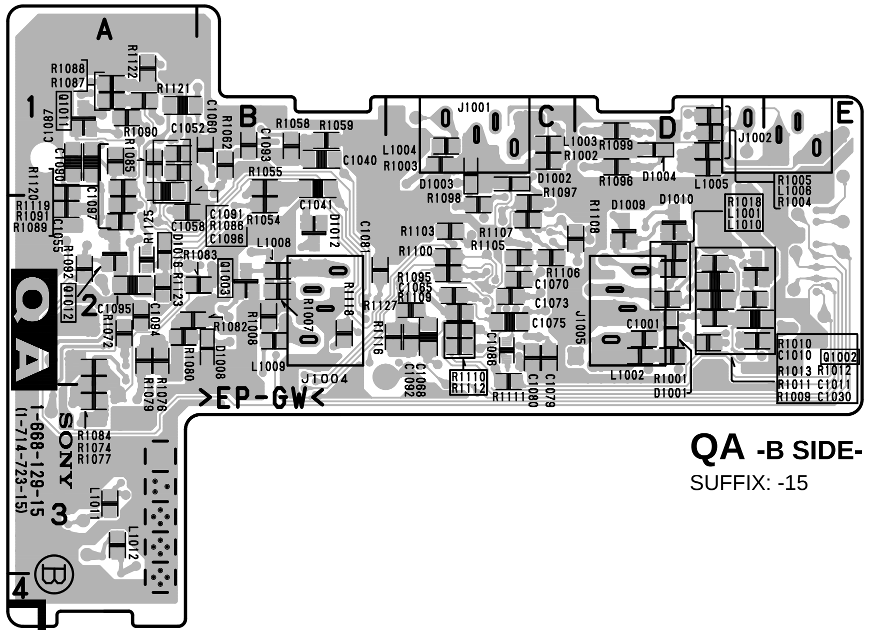
The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

QA BOARD



QA -A SIDE-
SUFFIX: -15

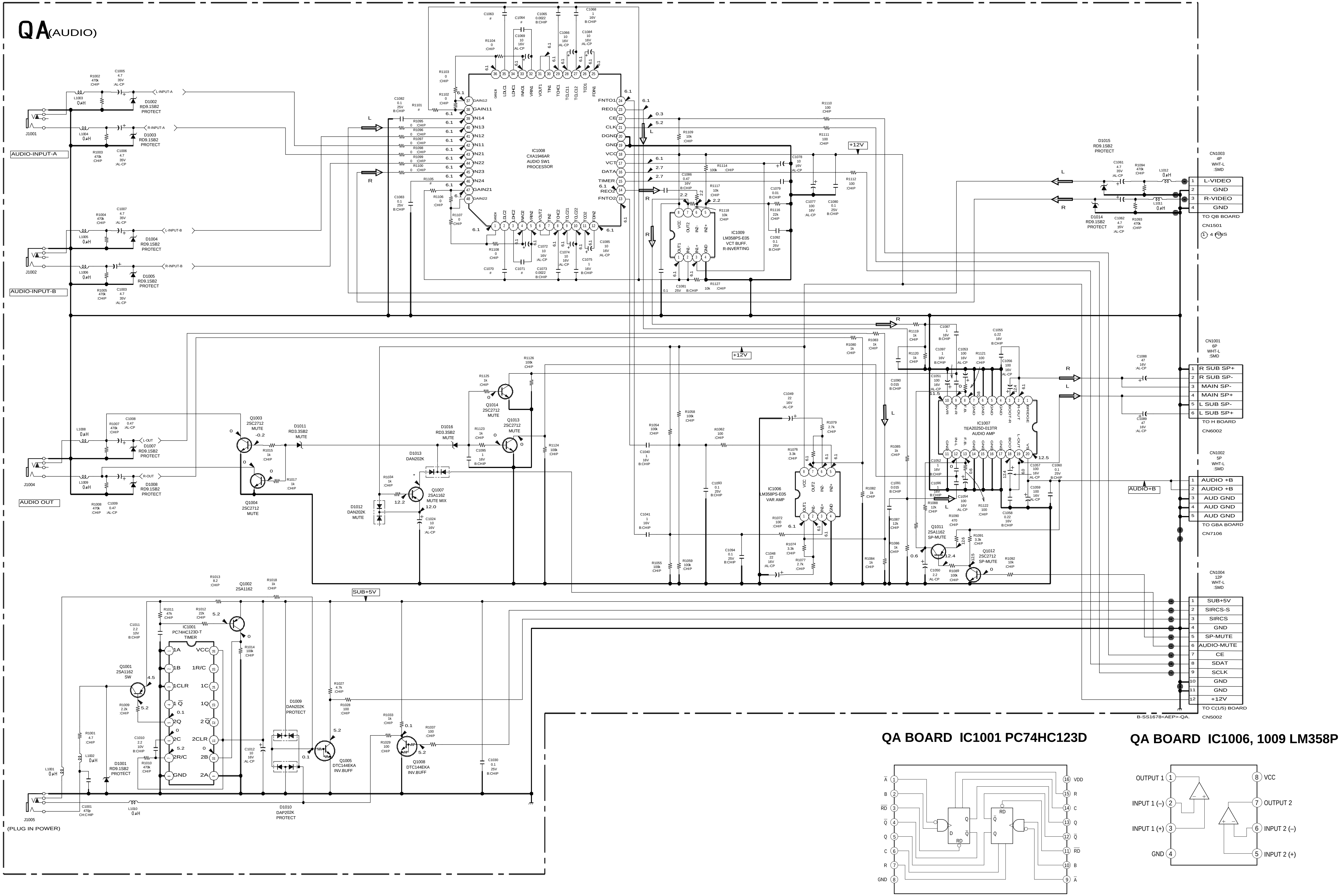


QA -B SIDE-
SUFFIX: -15

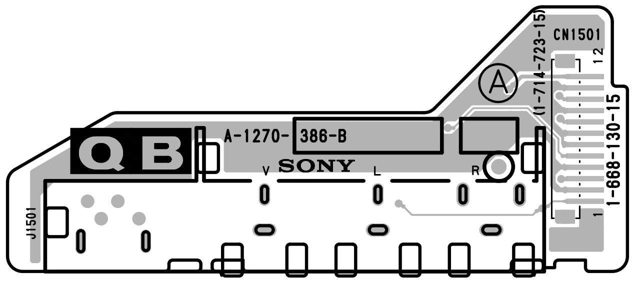
QA BOARD

*: B SIDE

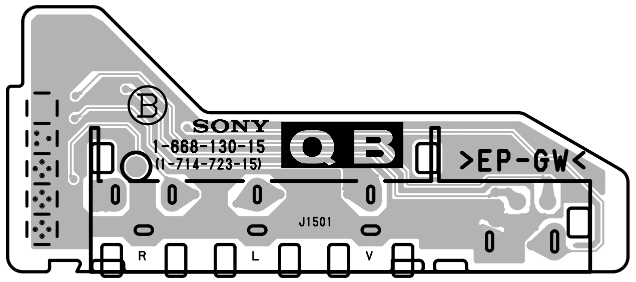
*D1001	D-2
*D1002	C-1
*D1003	C-1
*D1004	D-1
D1005	D-1
D1007	B-2
*D1008	B-2
*D1009	D-2
*D1010	D-2
D1011	B-2
*D1012	B-2
D1013	B-2
D1014	A-3
D1015	A-3
D1016	A-2
IC1001	D-2
IC1006	A-2
IC1007	A-1
IC1008	C-2
IC1009	C-2
Q1001	D-2
*Q1002	D-2
*Q1003	B-2
Q1004	B-2
Q1005	D-2
Q1007	B-2
Q1008	D-2
*Q1011	A-1
*Q1012	A-2
Q1013	A-2
Q1014	A-2


QA(AUDIO)
1
2
3
4
5
AUDIO-INPUT-A
AUDIO-INPUT-B
AUDIO OUT
(PLUG IN POWER)
J1001
J1002
J1004
J1005
IC1008
CXA1946AR
AUDIO SW1
PROCESSOR
IC1009
LM358PS-E05
VCT BUFF.
R-INVERTING
IC1006
LM358PS-E05
VAR AMP
IC1007
TEA2025D-013TR
AUDIO AMP
IC1001
PC74HC123D-T
TIMER
Q1001 2SA1162 SW
Q1002 2SA1162
Q1003 2SC2712 MUTE
Q1004 2SC2712 MUTE
Q1005 DTC144EKA INV.BUFF
Q1007 2SA1162 MUTE MIX
Q1008 DTC144EKA INV.BUFF
Q1011 2SA1162 SP-MUTE
Q1012 2SC2712 SP-MUTE
Q1013 2SC2712 MUTE
Q1014 2SC2712 MUTE
D1009 DAN202K PROTECT
D1010 DAP202K PROTECT
D1012 DAN202K MUTE
D1013 DAN202K
D1014 RD9.1SB2 PROTECT
D1015 RD9.1SB2 PROTECT
+12V
SUB+5V
AUDIO+B
CN1003 4P WHT-L :SMD
1 L-VIDEO
2 GND
3 R-VIDEO
4 GND
TO QB BOARD CN1501
CN1001 6P WHT-L :SMD
1 R SUB SP+
2 R SUB SP-
3 MAIN SP-
4 MAIN SP+
5 L SUB SP-
6 L SUB SP+
TO H BOARD CN6002
CN1002 5P WHT-L :SMD
1 AUDIO +B
2 AUDIO +B
3 AUD GND
4 AUD GND
5 AUD GND
TO GBA BOARD CN7106
CN1004 12P WHT-L :SMD
1 SUB+5V
2 SIRCS-S
3 SIRCS
4 GND
5 SP-MUTE
6 AUDIO-MUTE
7 CE
8 SDAT
9 SCLK
10 GND
11 GND
12 +12V
TO C(1/5) BOARD CN5002
B-SS1678<AEP>-QA.
QA BOARD IC1001 PC74HC123D
1 Ā
2 B
3 R̄D̄
4 Q̄
5 Q
6 C
7 R
8 GND
16 VDD
15 R
14 C
13 Q
12 Q̄
11 R̄D̄
10 B
9 Ā
QA BOARD IC1006, 1009 LM358P
OUTPUT 1 1
INPUT 1 (–) 2
INPUT 1 (+) 3
GND 4
8 VCC
7 OUTPUT 2
6 INPUT 2 (–)
5 INPUT 2 (+)
A
B
C
D
E
F
G
H

QB BOARD

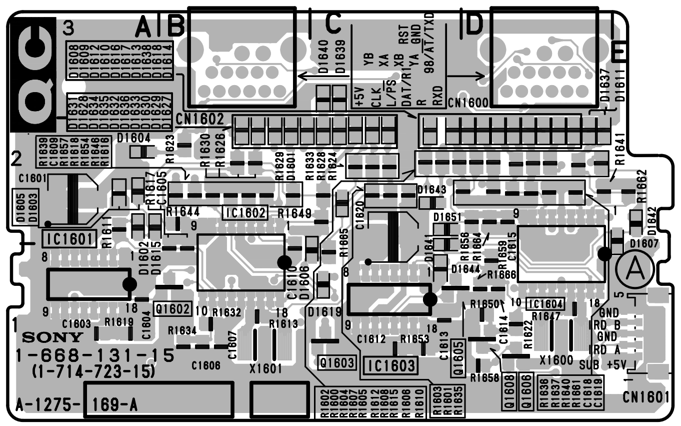

QB
A-1270-386-B
SONY
V
L
R
A
CN1501
(1-714-723-15)
1-668-130-15
J1501

QB -A SIDE-
SUFFIX: -15

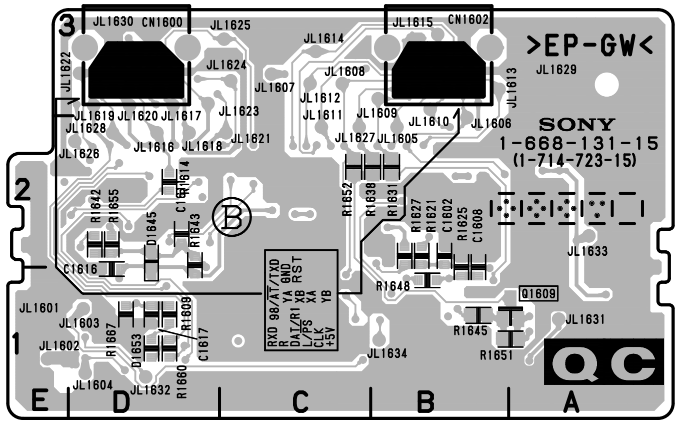

B
SONY
1-668-130-15
(1-714-723-15)
QB
>EP-GW<
J1501
R
L
V

QB -B SIDE-
SUFFIX: -15

QC BOARD


QC
3
2
1
A
B
C
D
E
CN1600
CN1601
CN1602
IC1601
IC1602
IC1603
IC1604
SONY
1-668-131-15
(1-714-723-15)
A-1275-168-A
X1600
X1601

QC -A SIDE-
SUFFIX: -15

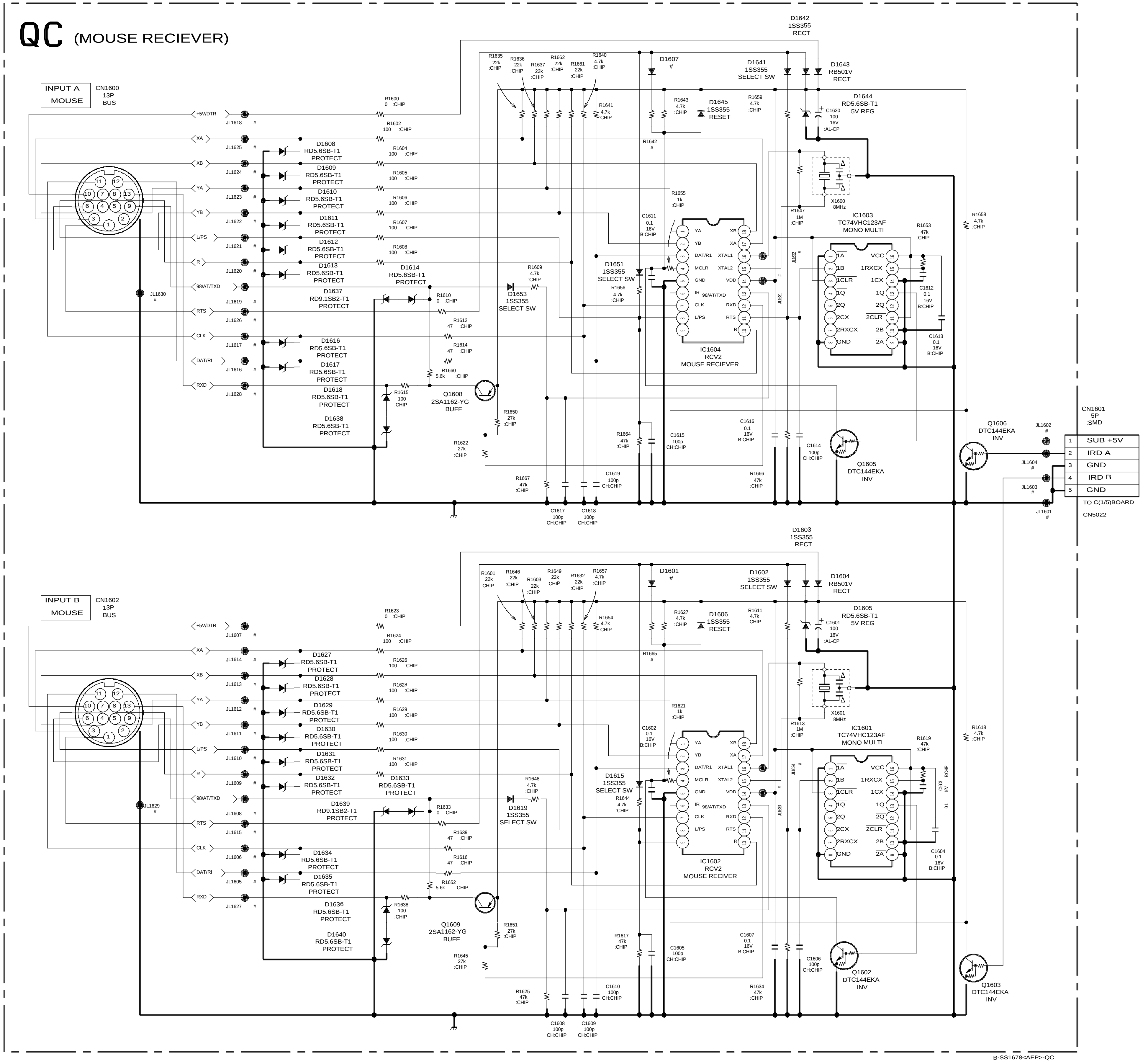

3
2
1
E
D
C
B
A
CN1600
CN1602
>EP-GW<
SONY
1-668-131-15
(1-714-723-15)
QC
Q1609

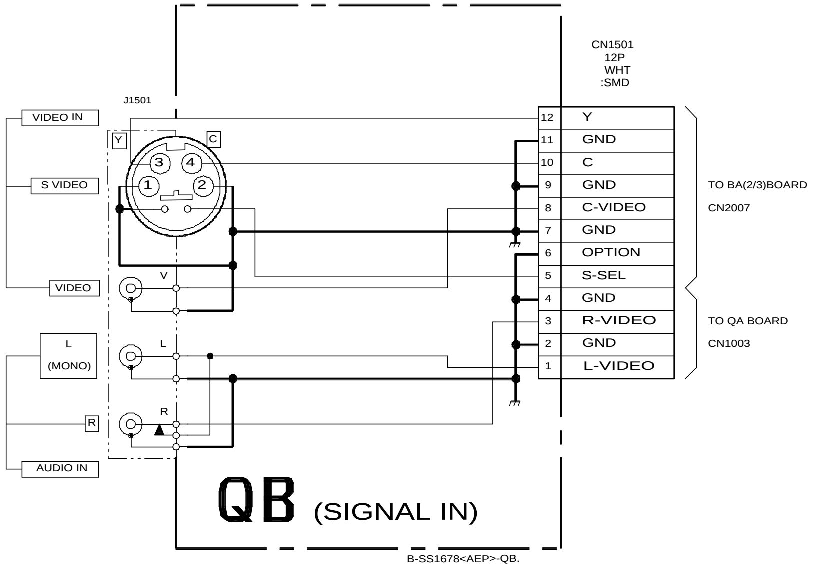
QC -B SIDE-
SUFFIX: -15

QC BOARD

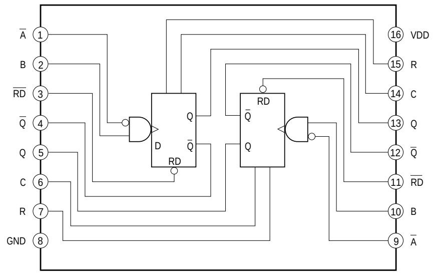
*: B SIDE

D1602	A-2	D1635	B-2
D1603	A-2	D1636	C-2
D1604	A-2	D1637	D-2
D1605	A-2	D1638	D-2
D1606	C-2	D1639	C-3
C1608	C-1	D1640	C-3
D1609	C-2	D1641	C-2
D1610	D-2	D1642	E-2
D1611	D-2	D1643	C-2
D1612	D-2	D1644	C-1
D1613	D-2	*D1645	D-2
D1614	D-2	D1651	C-2
D1615	A-2	D1653	C-2
D1616	D-2		
D1617	D-2	IC1601	A-1
D1618	D-2	IC1602	B-1
D1619	C-1	IC1603	C-1
D1627	C-2	IC1604	D-1
D1628	B-2		
D1629	C-2	Q1602	B-1
D1630	C-2	Q1603	C-1
D1631	B-2	Q1605	C-1
D1632	C-2	Q1606	D-1
D1633	C-2	Q1608	D-1
D1634	B-2	*Q1609	A-1


QC (MOUSE RECIEVER)
INPUT A MOUSE
CN1600 13P BUS
INPUT B MOUSE
CN1602 13P BUS
+5V/DTR
XA
XB
YA
YB
L/PS
R
98/AT/TXD
RTS
CLK
DAT/RI
RXD
D1608 RD5.6SB-T1 PROTECT
D1637 RD9.1SB2-T1 PROTECT
D1653 1SS355 SELECT SW
D1651 1SS355 SELECT SW
Q1608 2SA1162-YG BUFF
IC1604 RCV2 MOUSE RECIEVER
IC1602 RCV2 MOUSE RECIVER
IC1603 TC74VHC123AF MONO MULTI
IC1601 TC74VHC123AF MONO MULTI
X1600 8MHz
X1601 8MHz
D1642 1SS355 RECT
D1643 RB501V RECT
D1644 RD5.6SB-T1 5V REG
D1645 1SS355 RESET
Q1605 DTC144EKA INV
Q1606 DTC144EKA INV
Q1602 DTC144EKA INV
Q1603 DTC144EKA INV
Q1609 2SA1162-YG BUFF
CN1601 5P :SMD
1 SUB +5V
2 IRD A
3 GND
4 IRD B
5 GND
TO C(1/5)BOARD CN5022
B-SS1678<AEP>-QC.


CN1501 12P WHT :SMD
J1501
VIDEO IN
S VIDEO
VIDEO
L (MONO)
R
AUDIO IN
12 Y
11 GND
10 C
9 GND
8 C-VIDEO
7 GND
6 OPTION
5 S-SEL
4 GND
3 R-VIDEO
2 GND
1 L-VIDEO
TO BA(2/3)BOARD CN2007
TO QA BOARD CN1003
QB (SIGNAL IN)
B-SS1678<AEP>-QB.

QC BOARD IC1601, 1603 TC74VHC123AF

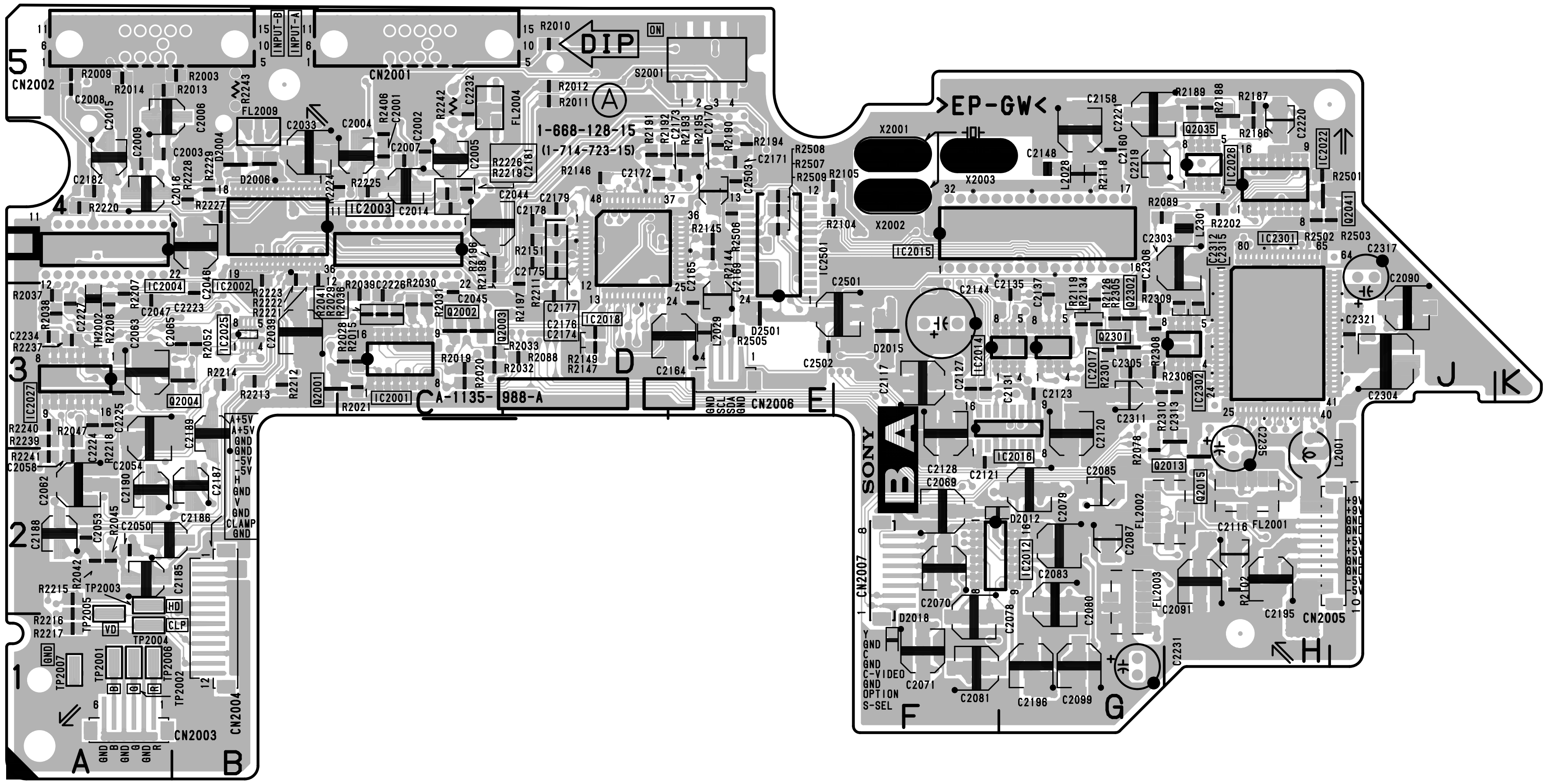

1 Ā
2 B
3 R̄D̄
4 Q̄
5 Q
6 C
7 R
8 GND
16 VDD
15 R
14 C
13 Q
12 Q̄
11 R̄D̄
10 B
9 Ā

BA BOARD

BA BOARD

*: B SIDE

*D2001	C-4
*D2002	C-4
*D2003	C-4
D2004	B-4
*D2005	B-4
D2006	B-4
*D2007	D-4
*D2008	D-4
*D2009	B-4
*D2010	B-4
D2012	F-2
*D2013	F-2
*D2014	F-1
D2015	F-3
*D2016	C-4
*D2017	B-4
D2018	F-1
*D2301	H-3
D2501	E-3
IC2001	C-3
IC2002	B-4
IC2003	C-4
IC2004	A-4
*IC2005	A-2
*IC2006	A-3
*IC2007	A-3
*IC2008	B-3
IC2012	F-2
IC2014	G-3
IC2015	G-4
IC2016	G-3
IC2017	G-3
IC2018	C-4
IC2022	H-4
IC2025	B-3
IC2026	H-4
IC2027	A-3
IC2301	H-3
IC2302	H-3
IC2501	E-4
Q2001	B-3
Q2002	C-3
Q2003	C-3
Q2004	B-3
*Q2005	F-1
*Q2006	F-2
*Q2007	F-2
*Q2008	G-2
*Q2009	G-2
*Q2010	G-2
*Q2011	G-2
*Q2012	H-2
Q2013	H-3
*Q2014	H-2
Q2015	H-2
*Q2016	J-2
*Q2017	H-2
*Q2018	G-1
*Q2019	G-1
*Q2020	H-2
*Q2021	E-3
*Q2022	F-4
*Q2023	E-3
*Q2024	G-3
*Q2025	G-3
*Q2026	F-3
*Q2027	E-4
*Q2028	E-3
*Q2029	E-4
*Q2030	F-3
*Q2031	E-3
*Q2032	G-4
Q2035	H-5
*Q2036	E-4
*Q2037	E-4
*Q2038	E-4
*Q2039	H-4
*Q2040	H-4
Q2041	H-4
Q2301	G-3
Q2302	G-3
*Q2303	H-3
*Q2304	G-3
*Q2305	H-3
TP2001	A-1
TP2002	A-1
TP2003	A-2
TP2004	A-1
TP2005	A-2
TP2006	A-1
TP2007	A-1

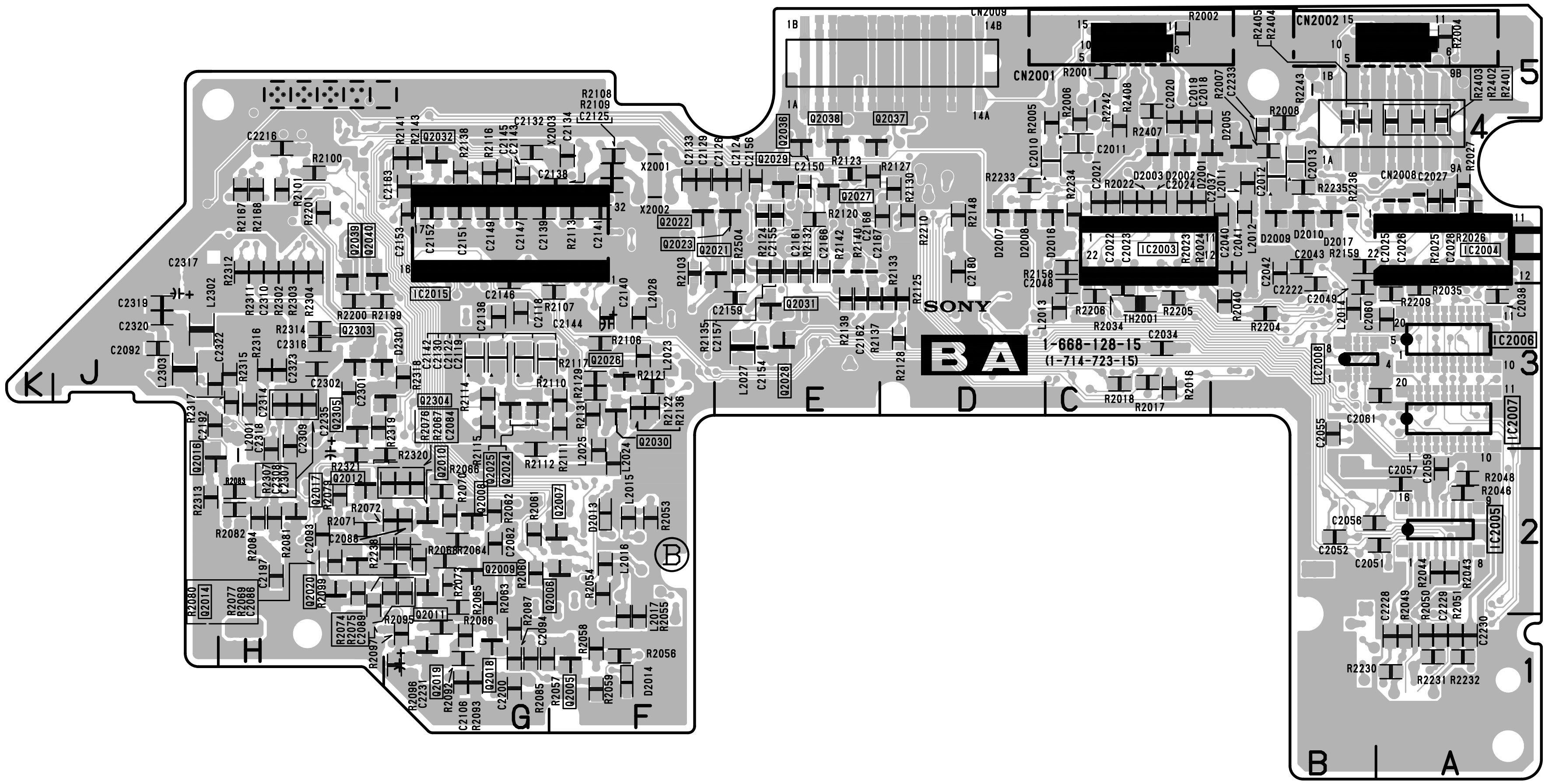

A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
CN2001
CN2002
CN2003
CN2004
CN2005
CN2006
CN2007
INPUT-A
INPUT-B
DIP
ON
S2001
1-668-128-15
(1-714-723-15)
A-1135-988-A
EP-GW
SONY
BA
X2001
X2002
X2003
IC2001
IC2002
IC2003
IC2004
IC2015
IC2016
IC2018
IC2301
GND
C-VIDEO
OPTION
S-SEL
CLAMP
VD
HD
CLP

BA **-A SIDE-**

SUFFIX: -15

http://getMANUAL.com

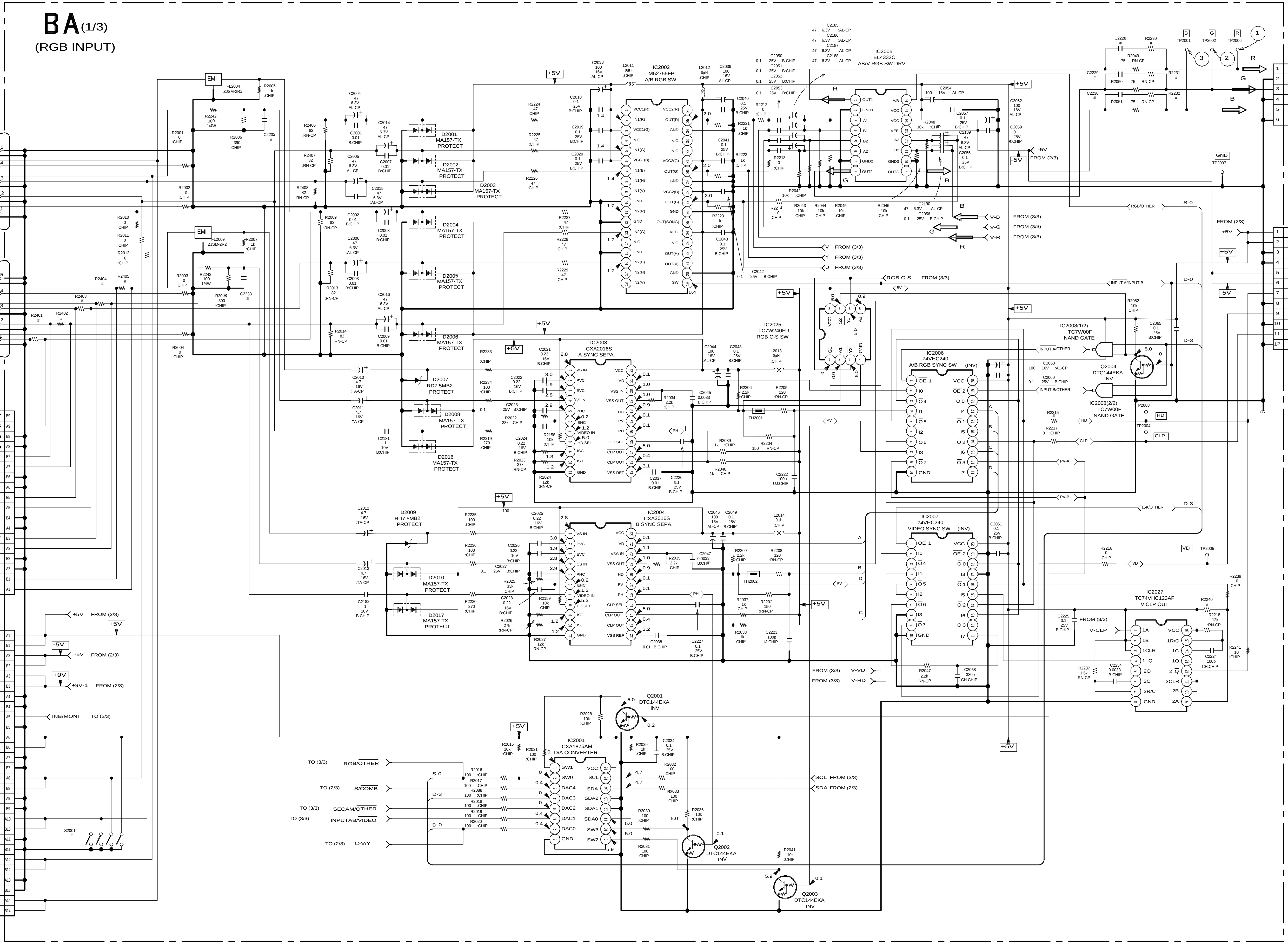
BA BOARD


CN2009
CN2001
CN2002
CN2008
IC2015
IC2003
IC2004
IC2006
IC2007
IC2005
SONY
BA
1-668-128-15
(1-714-723-15)
B
K
J
H
G
F
E
D
C
B
A
5
4
3
2
1

BA **-B SIDE-**
SUFFIX: -15

- Refer to page 8-6, 7 for PRINTED WIRING BOARD
- Refer to page 8-11 for WAVEFORMS
- Refer to page 8-11, 12 for IC BLOCK DIAGRAMS

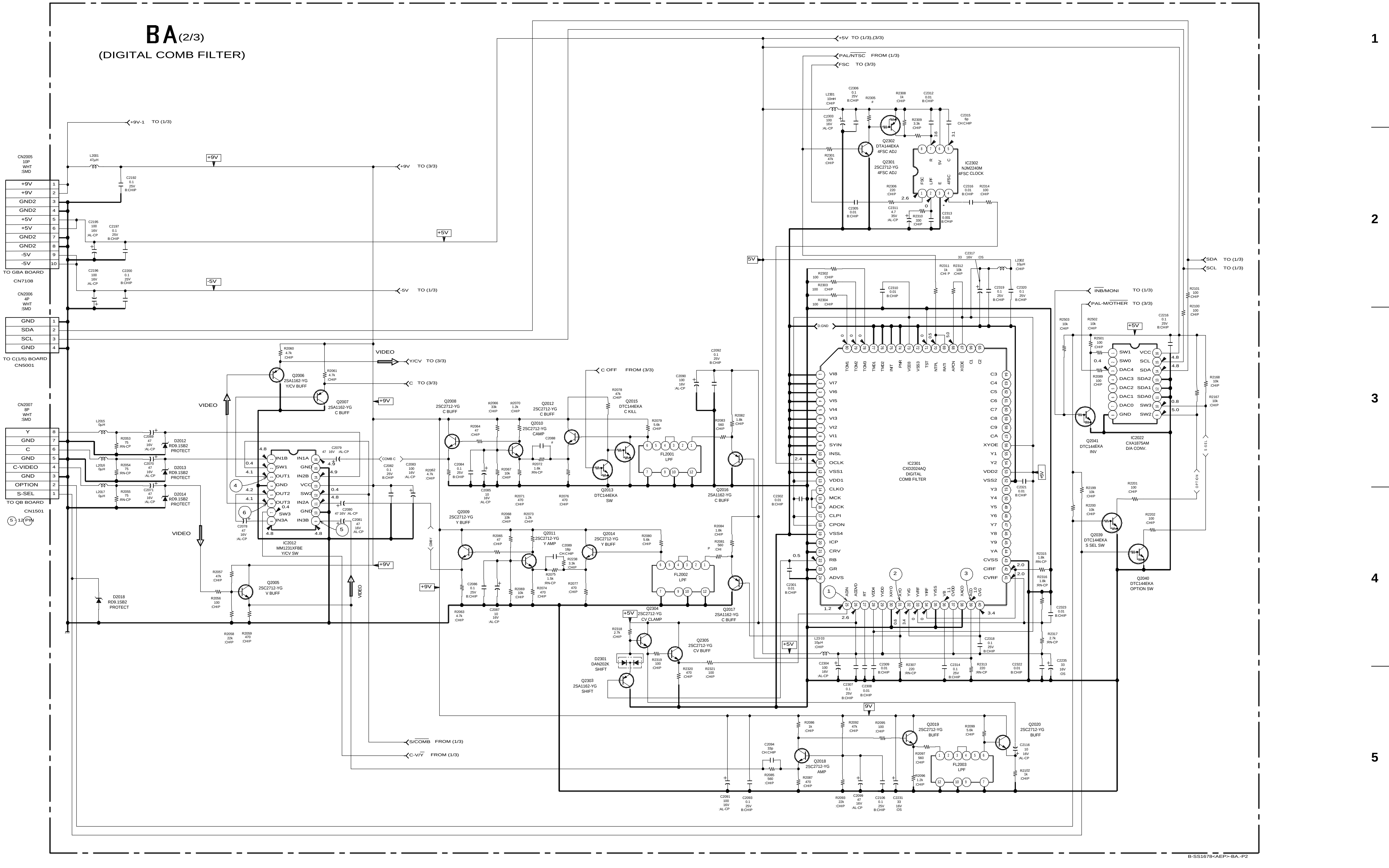
1
2
3
4
5


BA (1/3)
(RGB INPUT)
CN2001 INPUT-A
CN2002 INPUT-B
CN2008 18P :B-TO-B
TO BAA BOARD CN2803
CN2009 28P :B-TO-B
TO BAA BOARD CN2801
FL2004 ZJSM-2R2
FL2009 ZJSM-2R2
EMI
D2001 MA157-TX PROTECT
D2002 MA157-TX PROTECT
D2003 MA157-TX PROTECT
D2004 MA157-TX PROTECT
D2005 MA157-TX PROTECT
D2006 MA157-TX PROTECT
D2007 RD7.5MB2 PROTECT
D2008 MA157-TX PROTECT
D2016 MA157-TX PROTECT
D2009 RD7.5MB2 PROTECT
D2010 MA157-TX PROTECT
D2017 MA157-TX PROTECT
IC2002 M52755FP A/B RGB SW
IC2005 EL4332C AB/V RGB SW DRV
IC2003 CXA2016S A SYNC SEPA.
IC2004 CXA2016S B SYNC SEPA.
IC2025 TC7W240FU RGB C-S SW
IC2006 74VHC240 A/B RGB SYNC SW (INV)
IC2007 74VHC240 VIDEO SYNC SW (INV)
IC2008(1/2) TC7W00F NAND GATE
IC2008(2/2) TC7W00F NAND GATE
Q2004 DTC144EKA INV
IC2027 TC74VHC123AF V CLP OUT
IC2001 CXA1875AM D/A CONVERTER
Q2001 DTC144EKA INV
Q2002 DTC144EKA INV
Q2003 DTC144EKA INV
CN2003 6P WHT :SMD
TO BB(1/6)BOARD CN3005
CN2004 12P WHT :SMD
TO BB(2/6)BOARD CN3004
S2001
+5V
-5V
+9V
FROM (2/3)
FROM (3/3)
TO (2/3)
TO (3/3)

B-SS1678<AEP>-BA.-P1

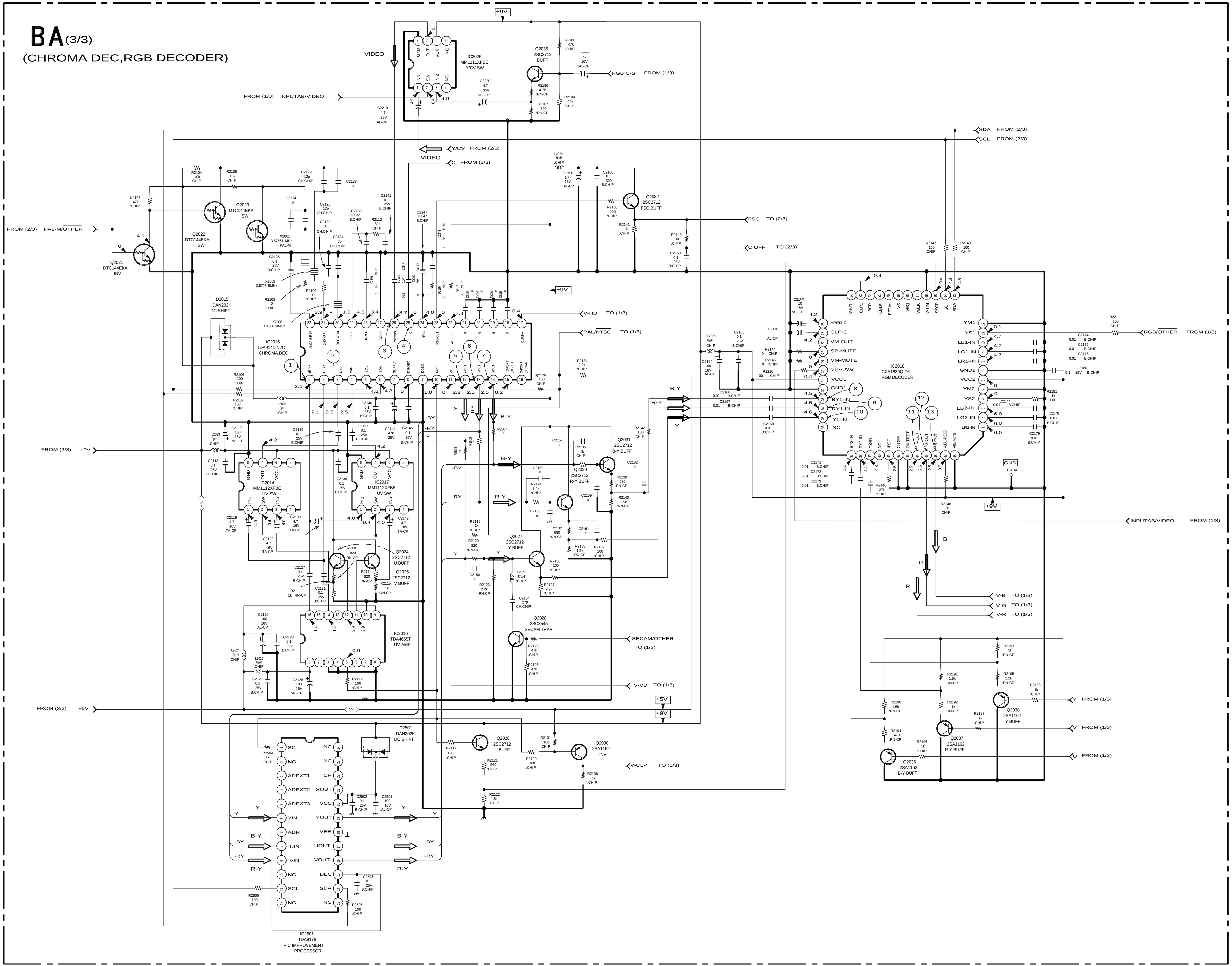
A B C D E F G H

- Refer to page 8-6, 7 for PRINTED WIRING BOARD
- Refer to page 8-11 for WAVEFORMS
- Refer to page 8-11, 12 for IC BLOCK DIAGRAMS


BA (2/3)
(DIGITAL COMB FILTER)
CN2005 10P WHT :SMD
+9V
GND2
+5V
-5V
TO GBA BOARD CN7108
CN2006 4P WHT :SMD
GND
SDA
SCL
TO C(1/5) BOARD CN5001
CN2007 8P WHT :SMD
Y
C
C-VIDEO
OPTION
S-SEL
TO QB BOARD CN1501
5 12PIN
+9V-1 TO (1/3)
+9V TO (3/3)
-5V TO (1/3)
+5V TO (1/3),(3/3)
PAL/NTSC FROM (1/3)
FSC TO (3/3)
Y/CV TO (3/3)
C TO (3/3)
C OFF FROM (3/3)
S/COMB FROM (1/3)
C-V/Y FROM (1/3)
SDA TO (1/3)
SCL TO (1/3)
INB/MONI TO (1/3)
PAL-M/OTHER TO (3/3)
VIDEO
IC2012 MM1231XFBE Y/CV SW
IC2301 CXD2024AQ DIGITAL COMB FILTER
IC2302 NJM2240M 4FSC CLOCK
IC2022 CXA1875AM D/A CONV.
Q2301 2SC2712-YG 4FSC ADJ
Q2302 DTA144EKA 4FSC ADJ
Q2005 2SC2712-YG V BUFF
Q2006 2SA1162-YG Y/CV BUFF
Q2007 2SA1162-YG C BUFF
Q2008 2SC2712-YG C BUFF
Q2009 2SC2712-YG Y BUFF
Q2010 2SC2712-YG CAMP
Q2011 2SC2712-YG Y AMP
Q2012 2SC2712-YG C BUFF
Q2013 DTC144EKA SW
Q2014 2SC2712-YG Y BUFF
Q2015 DTC144EKA C KILL
Q2016 2SA1162-YG C BUFF
Q2017 2SA1162-YG C BUFF
Q2018 2SC2712-YG AMP
Q2019 2SC2712-YG BUFF
Q2020 2SC2712-YG BUFF
Q2039 DTC144EKA S SEL SW
Q2040 DTC144EKA OPTION SW
Q2041 DTC144EKA INV
Q2303 2SA1162-YG SHIFT
Q2304 2SC2712-YG CV CLAMP
Q2305 2SC2712-YG CV BUFF
D2012 RD9.1SB2 PROTECT
D2013 RD9.1SB2 PROTECT
D2014 RD9.1SB2 PROTECT
D2018 RD9.1SB2 PROTECT
D2301 DAN202K SHIFT
FL2001 LPF
FL2002 LPF
FL2003 LPF
B-SS1678<AEP>-BA.-P2
1
2
3
4
5

BA (3/3)

- Refer to page 8-6, 7 for PRINTED WIRING BOARD
- Refer to page 8-11, 12 for IC BLOCK DIAGRAMS



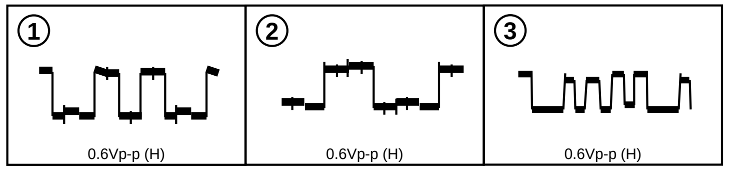
BA(3/3)
(CHROMA DEC,RGB DECODER)

IC2026
MM1111XFBE
Y/CV SW
Q2035
2SC2712
BUFF
RGB C-S FROM (1/3)
FROM (1/3) INPUTAB/VIDEO
VIDEO
Y/CV FROM (2/3)
C FROM (2/3)
SDA FROM (2/3)
SCL FROM (2/3)
FROM (2/3) PAL-M/OTHER
Q2021
DTC144EKA
INV
Q2022
DTC144EKA
SW
Q2023
DTC144EKA
SW
X2001
3.575611MHz
PAL-M
X2002
3.579545MHz
X2003
4.433619MHz
D2015
DAN202K
DC SHIFT
IC2015
TDA9141-N2C
CHROMA DEC
Q2032
2SC2712
FSC BUFF
FSC TO (2/3)
C OFF TO (2/3)
+9V
V-HD TO (1/3)
PAL/NTSC TO (1/3)
IC2018
CXA1839Q-T6
RGB DECODER
APED-C
CLP-C
VM-OUT
SP-MUTE
VM-MUTE
YUV-SW
VCC1
GND1
BY1-IN
RY1-IN
Y1-IN
NC
YM1
YS1
LB1-IN
LG1-IN
LR1-IN
GND2
VCC2
YM2
YS2
LB2-IN
LG2-IN
LR2-IN
RGB/OTHER FROM (1/3)
GND
TP2014
INPUTAB/VIDEO FROM (1/3)
FROM (2/3) +9V
IC2014
MM1112XFBE
UV SW
IC2017
MM1112XFBE
UV SW
Q2024
2SC2712
U BUFF
Q2025
2SC2712
V BUFF
IC2016
TDA4665T
UV-AMP
Q2029
2SC2712
R-Y BUFF
Q2031
2SC2712
B-Y BUFF
Q2027
2SC2712
Y BUFF
Q2028
2SC3545
SECAM TRAP
SECAM/OTHER TO (1/3)
V-VD TO (1/3)
FROM (2/3) +5V
+5V
V-B TO (1/3)
V-G TO (1/3)
V-R TO (1/3)
Q2038
2SA1162
Y BUFF
Q2037
2SA1162
R-Y BUFF
Q2036
2SA1162
B-Y BUFF
Y FROM (1/3)
V FROM (1/3)
U FROM (1/3)
Q2026
2SC2712
BUFF
Q2030
2SA1162
INV
V-CLP TO (1/3)
D2501
DAN202K
DC SHIFT
IC2501
TDA9178
PIC IMPROVEMENT
PROCESSOR
SC
NC
ADEXT1
ADEXT2
ADEXT3
YIN
ADR
-UIN
-VIN
SCL
CF
SOUT
VCC
YOUT
VEE
-UOUT
-VOUT
DEC
SDA
Y
B-Y
R-Y
-BY
-RY

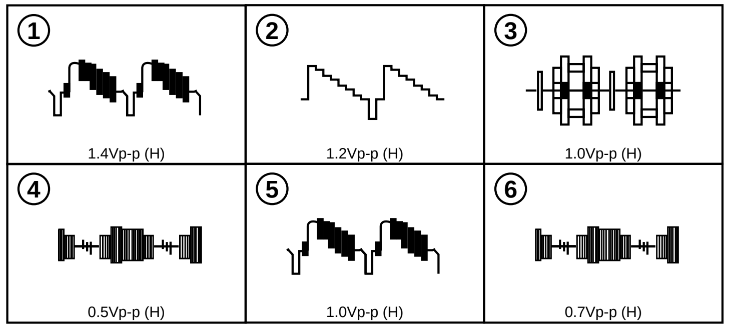
B-SS1678<AEP>-BA.-P3

8-10

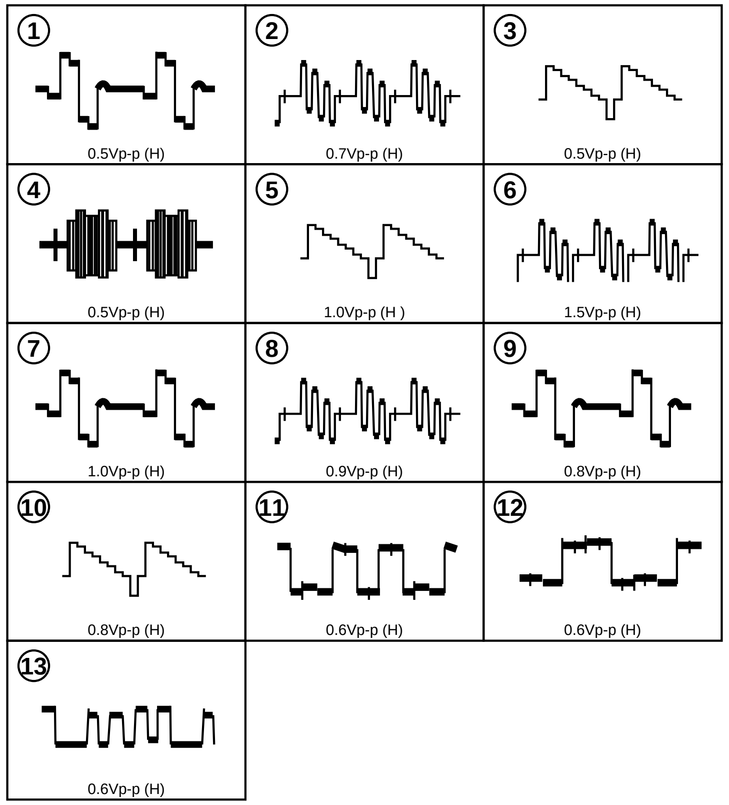
BA BOARD WAVEFORMS (1/3)



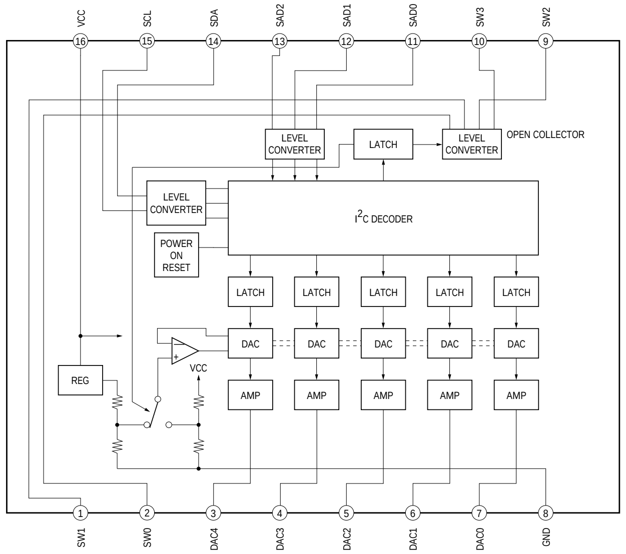
BA BOARD WAVEFORMS (2/3)



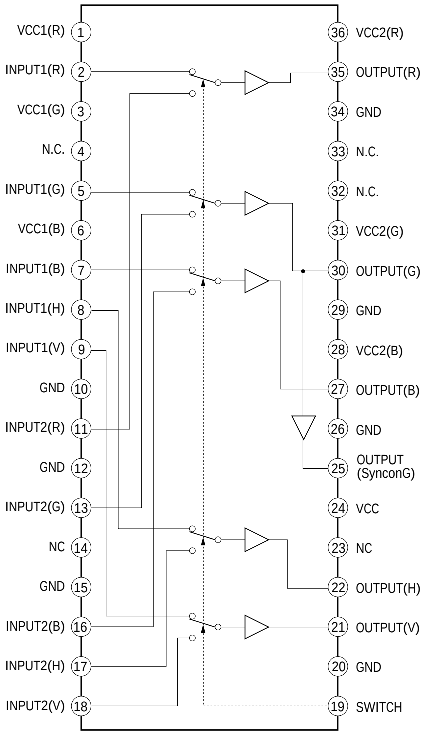
BA BOARD WAVEFORMS (3/3)



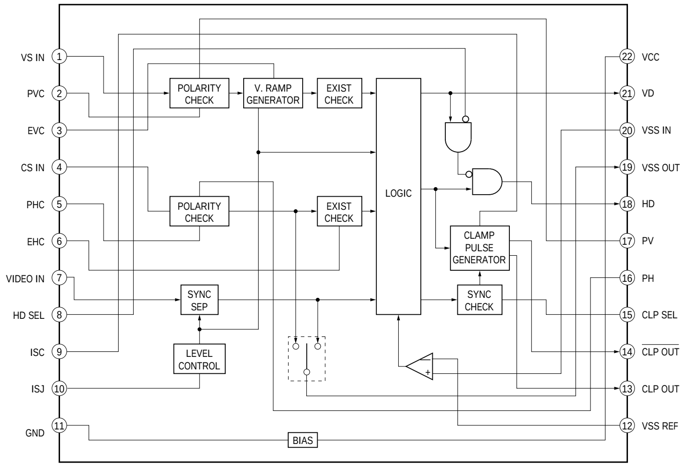
BA BOARD IC2001, 2022 CXA1875AX


VCC 16
SCL 15
SDA 14
SAD2 13
SAD1 12
SAD0 11
SW3 10
SW2 9
LEVEL CONVERTER
LATCH
LEVEL CONVERTER
OPEN COLLECTOR
LEVEL CONVERTER
I²C DECODER
POWER ON RESET
LATCH
LATCH
LATCH
LATCH
LATCH
DAC
DAC
DAC
DAC
DAC
AMP
AMP
AMP
AMP
AMP
REG
VCC
1 SW1
2 SW0
3 DAC4
4 DAC3
5 DAC2
6 DAC1
7 DAC0
8 GND

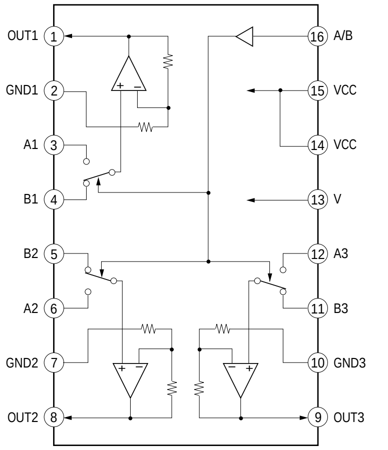
BA BOARD IC2002 M52755FP


VCC1(R) 1
INPUT1(R) 2
VCC1(G) 3
N.C. 4
INPUT1(G) 5
VCC1(B) 6
INPUT1(B) 7
INPUT1(H) 8
INPUT1(V) 9
GND 10
INPUT2(R) 11
GND 12
INPUT2(G) 13
NC 14
GND 15
INPUT2(B) 16
INPUT2(H) 17
INPUT2(V) 18
36 VCC2(R)
35 OUTPUT(R)
34 GND
33 N.C.
32 N.C.
31 VCC2(G)
30 OUTPUT(G)
29 GND
28 VCC2(B)
27 OUTPUT(B)
26 GND
25 OUTPUT (SynconG)
24 VCC
23 NC
22 OUTPUT(H)
21 OUTPUT(V)
20 GND
19 SWITCH

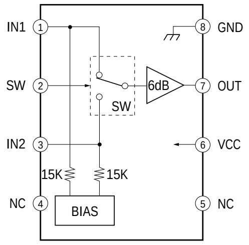
BA BOARD IC2003, 2004 CXA2016S


VS IN 1
PVC 2
EVC 3
CS IN 4
PHC 5
EHC 6
VIDEO IN 7
HD SEL 8
ISC 9
ISJ 10
GND 11
22 VCC
21 VD
20 VSS IN
19 VSS OUT
18 HD
17 PV
16 PH
15 CLP SEL
14 $\overline{\text{CLP OUT}}$
13 CLP OUT
12 VSS REF
POLARITY CHECK
V. RAMP GENERATOR
EXIST CHECK
POLARITY CHECK
EXIST CHECK
LOGIC
CLAMP PULSE GENERATOR
SYNC SEP
SYNC CHECK
LEVEL CONTROL
BIAS

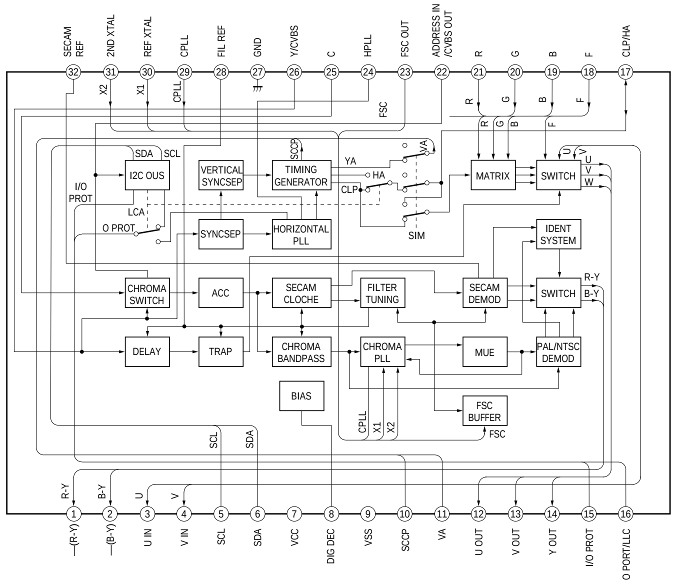
BA BOARD IC2005 EL4332C


OUT1 1
GND1 2
A1 3
B1 4
B2 5
A2 6
GND2 7
OUT2 8
16 A/B
15 VCC
14 VCC
13 V
12 A3
11 B3
10 GND3
9 OUT3

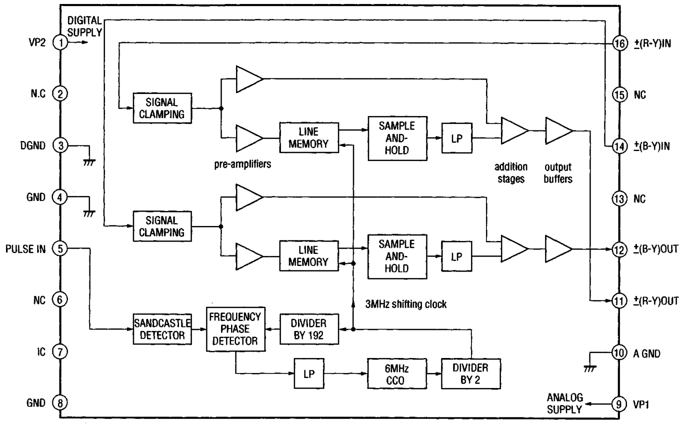
BA BOARD IC2014, 2017 MM1112XFBE


IN1 1
SW 2
IN2 3
NC 4
8 GND
7 OUT
6 VCC
5 NC
SW
6dB
15K
15K
BIAS

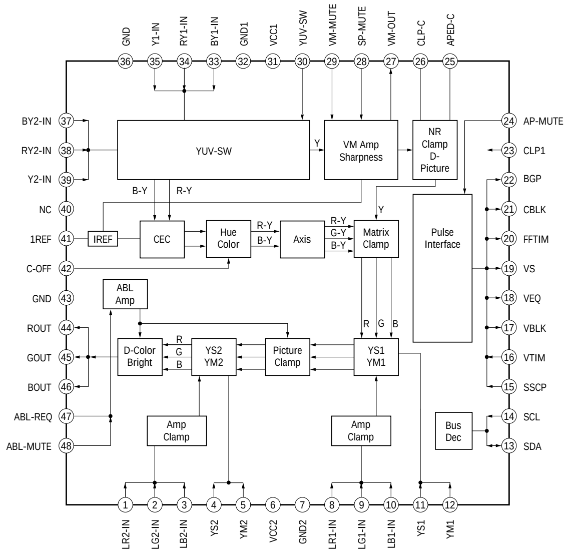
BA BOARD IC2015 TDA9141-N2C


SECAM REF
2ND XTAL
REF XTAL
CPLL
FIL REF
GND
Y/CVBS
C
HPLL
FSC OUT
ADDRESS IN /CVBS OUT
R
G
B
F
CLP/HA
I2C OUS
VERTICAL SYNCSEP
TIMING GENERATOR
MATRIX
SWITCH
SYNCSEP
HORIZONTAL PLL
IDENT SYSTEM
CHROMA SWITCH
ACC
SECAM CLOCHE
FILTER TUNING
SECAM DEMOD
DELAY
TRAP
CHROMA BANDPASS
CHROMA PLL
MUE
PAL/NTSC DEMOD
BIAS
FSC BUFFER
I/O PROT
O PROT
-(R-Y)
-(B-Y)
U IN
V IN
SCL
SDA
VCC
DIG DEC
VSS
SSCP
VA
U OUT
V OUT
Y OUT
I/O PROT
O PORT/LLC

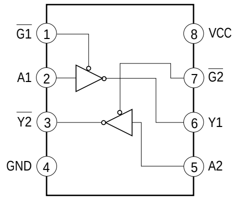
BA BOARD IC2016 TDA4665T


DIGITAL SUPPLY
VP2
N.C
DGND
GND
PULSE IN
NC
IC
GND
SIGNAL CLAMPING
LINE MEMORY
SAMPLE AND HOLD
LP
pre-amplifiers
addition stages
output buffers
3MHz shifting clock
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
6MHz CCO
DIVIDER BY 2
ANALOG SUPPLY
±(R-Y)IN
NC
±(B-Y)IN
NC
±(B-Y)OUT
±(R-Y)OUT
A GND
VP1

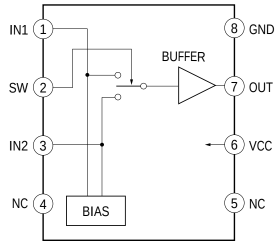
BA BOARD IC2018 CXA1839Q


GND
Y1-IN
RY1-IN
BY1-IN
GND1
VCC1
YUV-SW
VM-MUTE
SP-MUTE
VM-OUT
CLP-C
APED-C
BY2-IN
RY2-IN
Y2-IN
NC
1REF
C-OFF
GND
ROUT
GOUT
BOUT
ABL-REQ
ABL-MUTE
YUV-SW
VM Amp Sharpness
NR Clamp D-Picture
IREF
CEC
Hue Color
Axis
Matrix Clamp
Pulse Interface
ABL Amp
D-Color Bright
YS2 YM2
Picture Clamp
YS1 YM1
Amp Clamp
Bus Dec
AP-MUTE
CLP1
BGP
CBLK
FFTIM
VS
VEQ
VBLK
VTIM
SSCP
SCL
SDA
LR2-IN
LG2-IN
LB2-IN
YS2
YM2
VCC2
GND2
LR1-IN
LG1-IN
LB1-IN
YS1
YM1

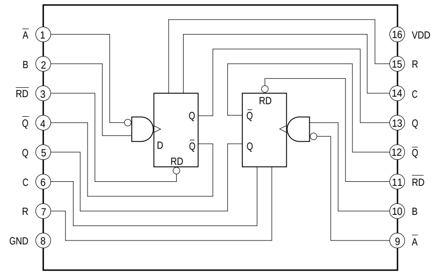
BA BOARD IC2025 TC7W240FU


G1
A1
Y2
GND
VCC
G2
Y1
A2

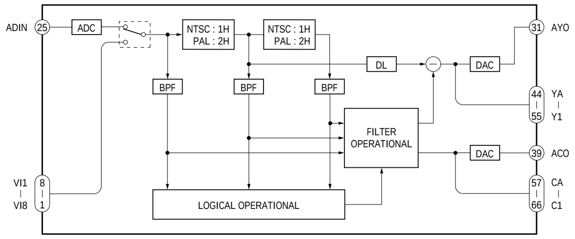
BA BOARD IC2026 MM1111XFBE


IN1
SW
IN2
NC
BUFFER
BIAS
GND
OUT
VCC
NC

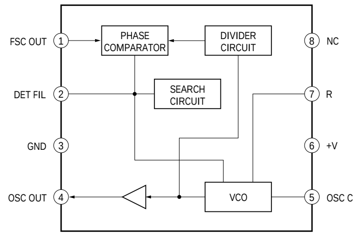
BA BOARD IC2027 TC74VHC123AF

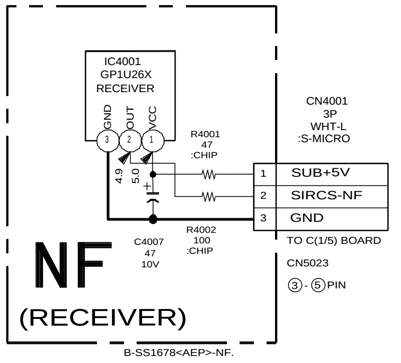

A
B
RD
Q
Q
C
R
GND
VDD
R
C
Q
Q
RD
B
A

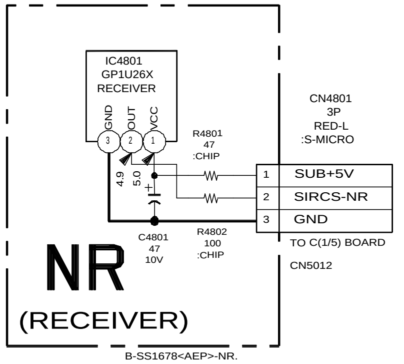
BA BOARD IC2301 CXD2024AQ

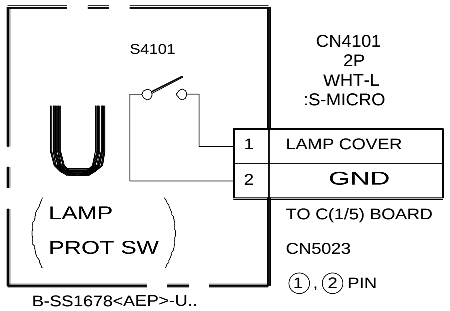

ADIN
ADC
NTSC : 1H PAL : 2H
DL
DAC
BPF
FILTER OPERATIONAL
LOGICAL OPERATIONAL
VII
VIB
AYO
YA
Y1
ACO
CA
C1

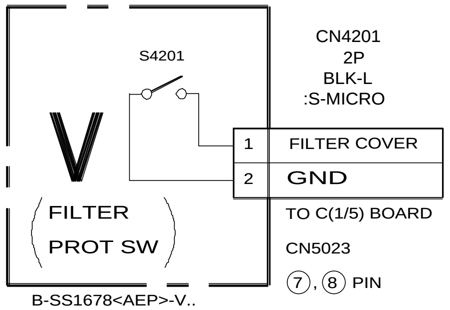
BA BOARD IC2302 NJM2240M


FSC OUT
DET FIL
GND
OSC OUT
PHASE COMPARATOR
DIVIDER CIRCUIT
SEARCH CIRCUIT
VCO
NC
R
+V
OSC C

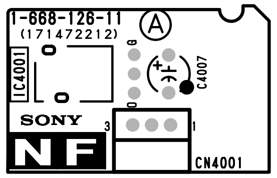

IC4001 GP1U26X RECEIVER
GND
OUT
VCC
R4001 47 :CHIP
R4002 100 :CHIP
C4007 47 10V
CN4001 3P WHT-L :S-MICRO
SUB+5V
SIRCS-NF
GND
TO C(1/5) BOARD
CN5023
③-⑤PIN
NF
(RECEIVER)
B-SS1678<AEP>-NF.


IC4801 GP1U26X RECEIVER
GND
OUT
VCC
R4801 47 :CHIP
R4802 100 :CHIP
C4801 47 10V
CN4801 3P RED-L :S-MICRO
SUB+5V
SIRCS-NR
GND
TO C(1/5) BOARD
CN5012
NR
(RECEIVER)
B-SS1678<AEP>-NR.

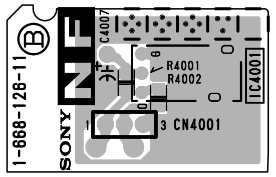

S4101
CN4101 2P WHT-L :S-MICRO
LAMP COVER
GND
TO C(1/5) BOARD
CN5023
①,② PIN
U
LAMP PROT SW
B-SS1678<AEP>-U..


S4201
CN4201 2P BLK-L :S-MICRO
FILTER COVER
GND
TO C(1/5) BOARD
CN5023
⑦,⑧ PIN
V
FILTER PROT SW
B-SS1678<AEP>-V..

NF BOARD

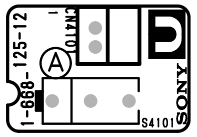

1-668-126-11
(171472212)
IC4001
C4007
SONY
NF
CN4001

NF -A SIDE-
SUFFIX: -11

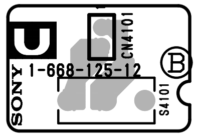

1-668-126-11
SONY
NF
R4001
R4002
IC4001
CN4001

NF -B SIDE-
SUFFIX: -11

U BOARD

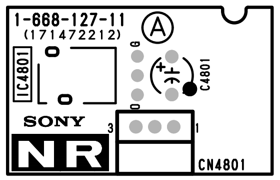

1-668-125-12
CN4101
SONY
S4101
U

U -A SIDE-
SUFFIX: -12

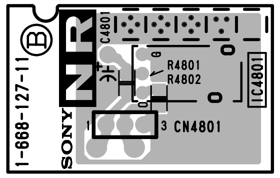

U
1-668-125-12
CN4101
SONY
S4101

U -B SIDE-
SUFFIX: -12

NR BOARD

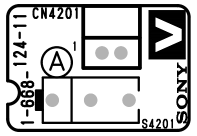

1-668-127-11
(171472212)
IC4801
C4801
SONY
NR
CN4801

NR -A SIDE-
SUFFIX: -11

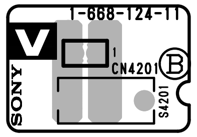

1-668-127-11
SONY
NR
R4801
R4802
IC4801
CN4801

NR -B SIDE-
SUFFIX: -11

V BOARD

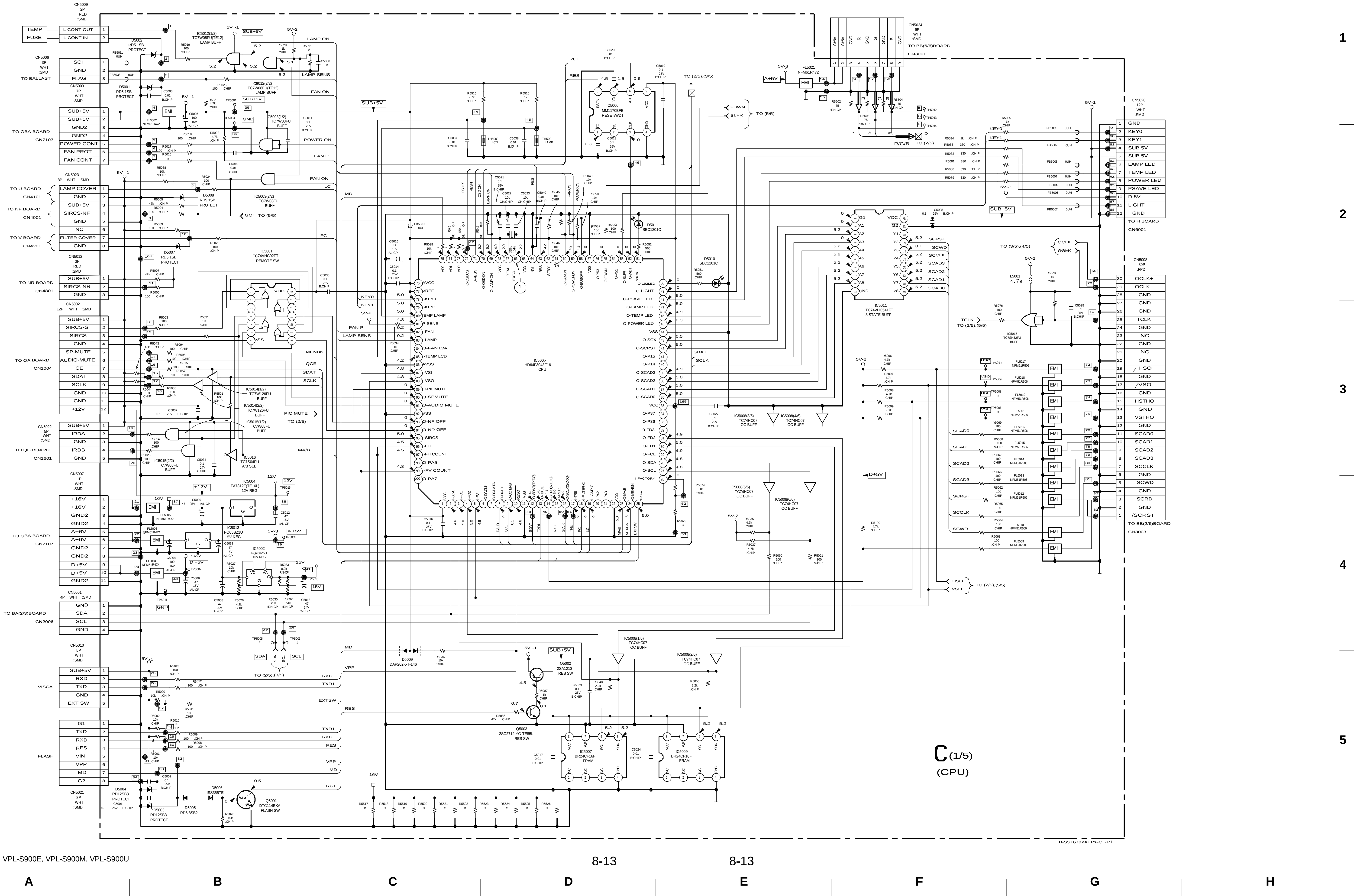

1-668-124-11
CN4201
SONY
S4201
V

V -A SIDE-
SUFFIX: -11


V
1-668-124-11
CN4201
SONY
S4201

V -B SIDE-
SUFFIX: -11

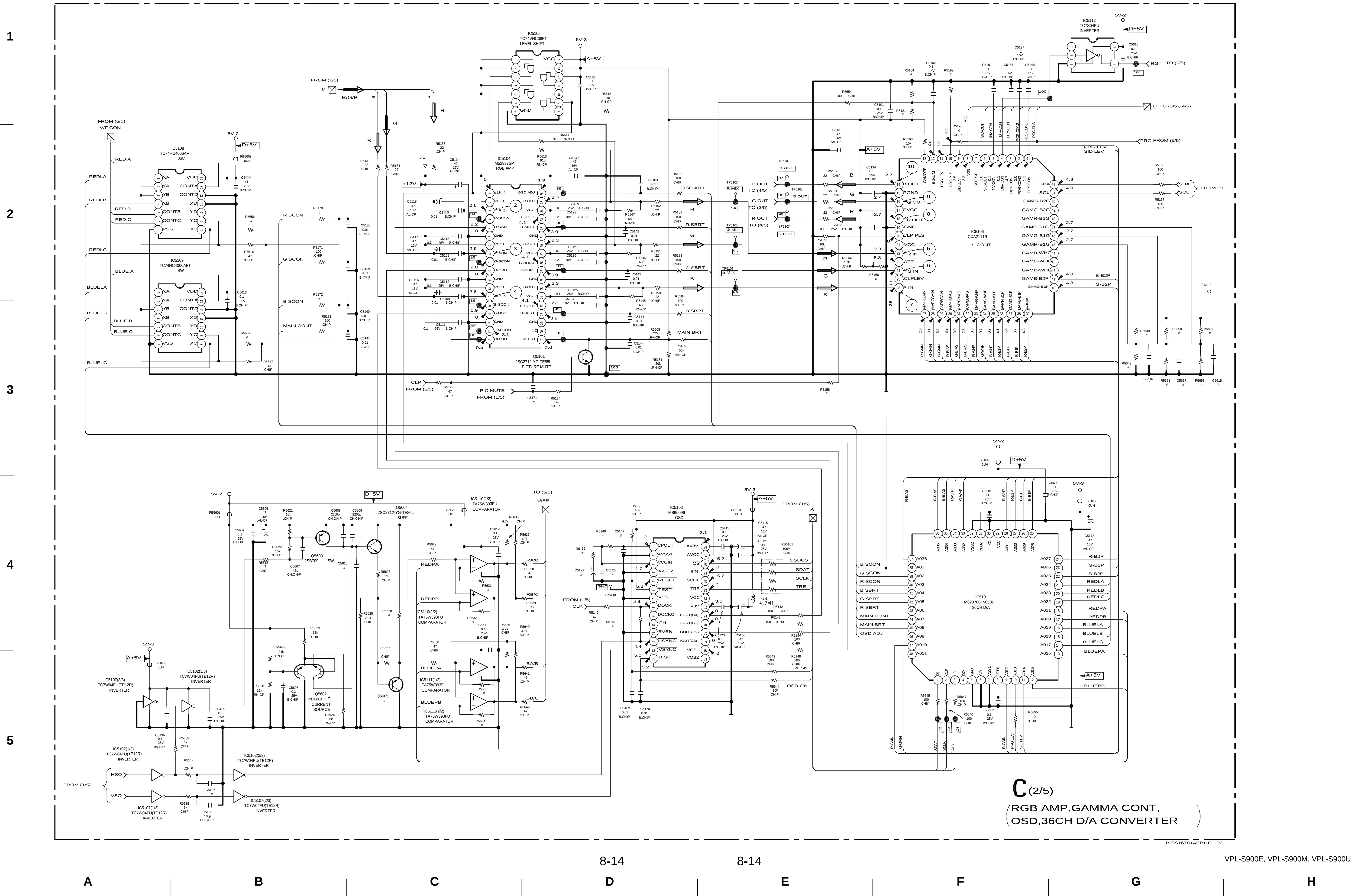
- Refer to page 8-18, 19 for PRINTED WIRING BOARD
- Refer to page 8-20 for IC BLOCK DIAGRAMS


TEMP
FUSE
CN5009 2P RED :SMD
L CONT OUT
L CONT IN
CN5006 3P WHT :SMD
TO BALLAST
SCI
GND
FLAG
CN5003 7P WHT :SMD
TO GBA BOARD CN7103
SUB+5V
GND2
POWER CONT
FAN PROT
FAN CONT
CN5023 8P WHT :SMD
TO U BOARD CN4101
LAMP COVER
SUB+5V
TO NF BOARD CN4001
SIRCS-NF
NC
TO V BOARD CN4201
FILTER COVER
CN5012 3P RED :SMD
TO NR BOARD CN4801
SIRCS-NR
CN5002 12P WHT :SMD
SIRCS-S
SIRCS
SP-MUTE
TO QA BOARD CN1004
AUDIO-MUTE
CE
SDAT
SCLK
+12V
CN5022 5P WHT :SMD
IRDA
TO QC BOARD CN1601
IRDB
CN5007 11P WHT :SMD
+16V
A+6V
D+5V
TO GBA BOARD CN7107
CN5001 4P WHT :SMD
TO BA(2/3)BOARD CN2006
SDA
SCL
CN5010 5P WHT :SMD
VISCA
RXD
TXD
EXT SW
G1
RES
VIN
VPP
MD
G2
FLASH
CN5021 8P WHT :SMD
D5002 RD5.1SB PROTECT
D5001 RD5.1SB PROTECT
IC5012(1/2) TC7W08FU(TE12) LAMP BUFF
IC5012(2/2) TC7W08FU(TE12) LAMP BUFF
IC5003(1/2) TC7W08FU BUFF
IC5003(2/2) TC7W08FU BUFF
D5008 RD5.1SB PROTECT
D5007 RD5.1SB PROTECT
IC5001 TC74VHC02FT REMOTE SW
IC5014(1/2) TC7W126FU BUFF
IC5014(2/2) TC7W126FU BUFF
IC5015(1/2) TC7W08FU BUFF
IC5015(2/2) TC7W08FU BUFF
IC5016 TC7S04FU A/B SEL
IC5004 TA7812F(TE16L) 12V REG
IC5013 PQ05SZ1U 5V REG
IC5002 PQ20VZ5U 15V REG
D5004 RD12SB3 PROTECT
D5003 RD12SB3 PROTECT
D5006 ISS355TE
D5005 RD6.8SB2
Q5001 DTC114EKA FLASH SW
IC5006 MM1170BFB RESET/WDT
TH5002 LCD
TH5001 LAMP
IC5005 HD64F3048F16 CPU
D5011 SEC1201C
D5010 SEC1201C
D5009 DAP202K-T-146
Q5002 2SA1213 RES SW
Q5003 2SC2712-YG-TE85L RES SW
IC5007 BR24CF16F FRAM
IC5009 BR24CF16F FRAM
IC5008(1/6) TC74HC07 OC BUFF
IC5008(2/6) TC74HC07 OC BUFF
IC5008(3/6) TC74HC07 OC BUFF
IC5008(4/6) TC74HC07 OC BUFF
IC5008(5/6) TC74HC07 OC BUFF
IC5008(6/6) TC74HC07 OC BUFF
IC5011 TC74VHC541FT 3 STATE BUFF
IC5017 TC7SH32FU BUFF
CN5024 9P WHT :SMD
TO BB(6/6)BOARD CN3001
A+5V
R/G/B TO (2/5)
FL5021 NFM61R472
TO (2/5),(3/5)
FDWN
SLFR
TO (5/5)
CN5020 12P WHT :SMD
KEY0
KEY1
SUB 5V
LAMP LED
TEMP LED
POWER LED
PSAVE LED
D.5V
LIGHT
TO H BOARD CN6001
CN5008 30P :FPD
OCLK+
OCLK-
TCLK
HSO
VSO
HSTHO
VSTHO
SCAD0
SCAD1
SCAD2
SCAD3
SCCLK
SCWD
SCRD
/SCRST
TO BB(2/6)BOARD CN3003
TO (3/5),(4/5)
OCLK
TO (2/5),(5/5)
L5001 4.7μH
EMI
1
2
3
4
5
A
B
C
D
E
F
G
H
B-SS1678<AEP>-C..-P1

C(1/5)

(CPU)

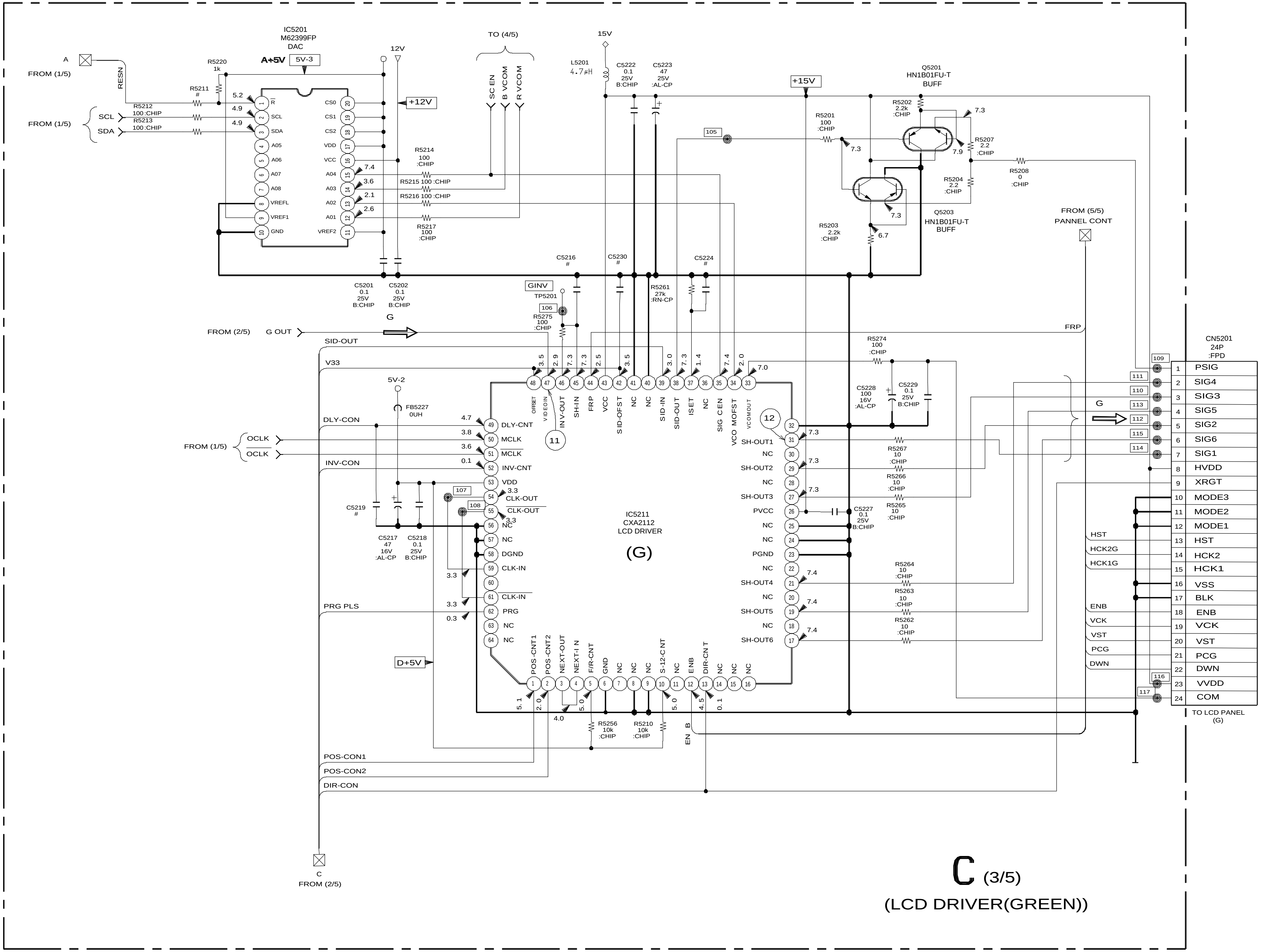
- Refer to page 8-18, 19 for PRINTED WIRING BOARD
- Refer to page 8-19 for WAVEFORMS
- Refer to page 8-20 for IC BLOCK DIAGRAMS


1
2
3
4
5
A
B
C
D
E
F
G
H
IC5105 TC74VHC08FT LEVEL SHIFT
IC5108 TC74HC4066AFT SW
IC5109 TC74HC4066AFT SW
IC5104 M52337SP RGB AMP
IC5106 CXA2111R
IC5112 TC7S04FU INVERTER
Q5101 2SC2712-YG-TE85L PICTURE MUTE
IC5103 MB90096 OSD
IC5101 M62370GP-650D 36CH D/A
IC5110(1/2) TA75W393FU COMPARATOR
IC5110(2/2) TA75W393FU COMPARATOR
IC5111(1/2) TA75W393FU COMPARATOR
IC5111(2/2) TA75W393FU COMPARATOR
Q5604 2SC2712-YG-TE85L BUFF
Q5603 2SB709 SW
Q5602 HN1B01FU-T CURRENT SOURCE
Q5605
IC5107(3/3) TC7W04FU(TE12R) INVERTER
IC5102(3/3) TC7W04FU(TE12R) INVERTER
IC5102(1/3) TC7W04FU(TE12R) INVERTER
IC5102(2/3) TC7W04FU(TE12R) INVERTER
IC5107(1/3) TC7W04FU(TE12R) INVERTER
IC5107(2/3) TC7W04FU(TE12R) INVERTER
FROM (5/5) V/F CON
FROM (1/5) D R/G/B
FROM (1/5) HSO VSO
TO (5/5) U/FP
RGT TO (5/5)
C TO (3/5),(4/5)
PRG FROM (5/5)
SDA SCL FROM P1
CLP FROM (5/5)
PIC MUTE FROM (1/5)
FROM (1/5) TCLK
FROM (1/5) A
5V-2
5V-3
D+5V
A+5V
+12V
B-SS1678<AEP>-C.-P2

C(2/5)

(RGB AMP,GAMMA CONT,
OSD,36CH D/A CONVERTER)

- Refer to page 8-18, 19 for PRINTED WIRING BOARD
- Refer to page 8-19 for WAVEFORMS
- Refer to page 8-20 for IC BLOCK DIAGRAMS

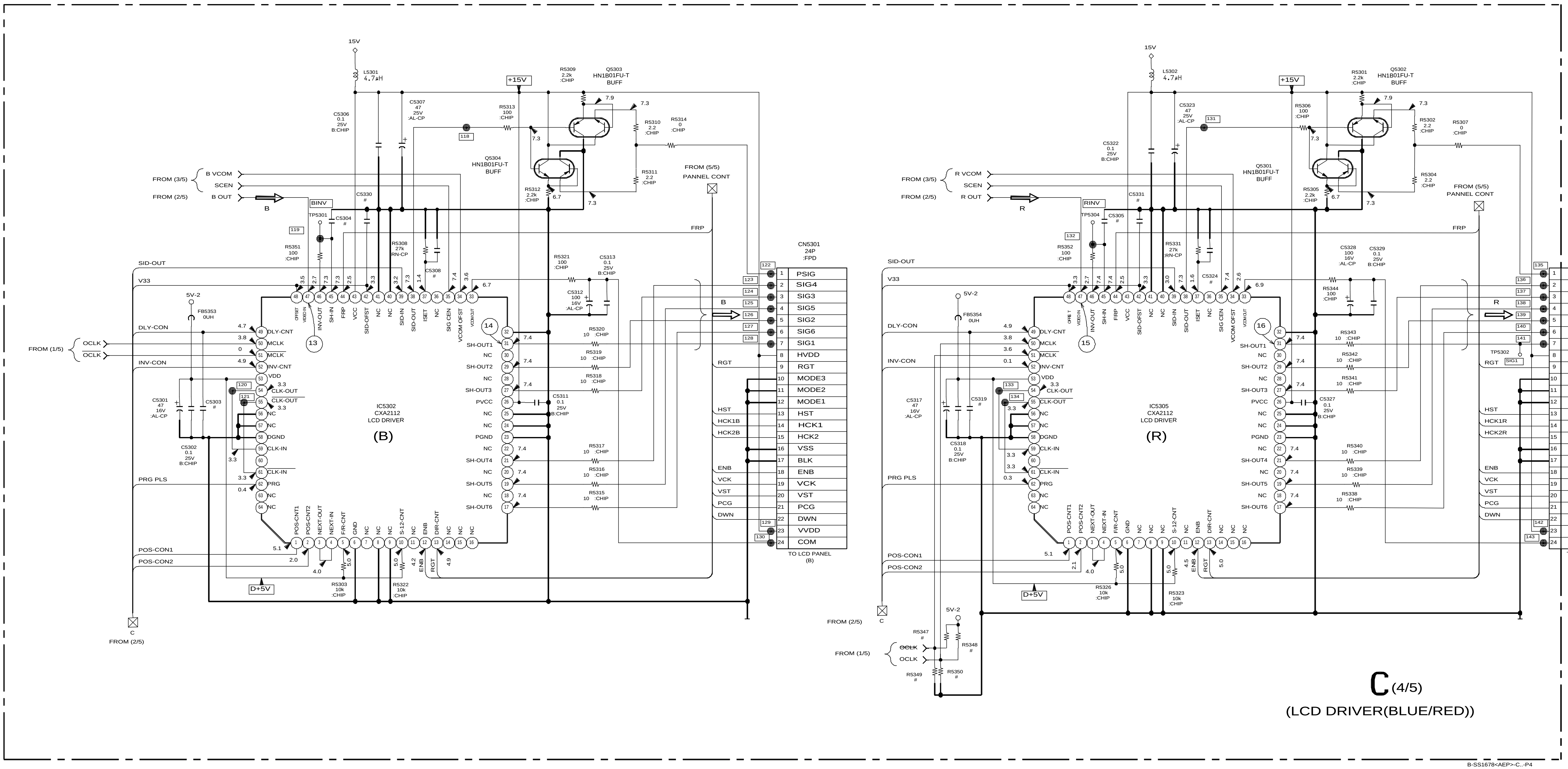

IC5201
M62399FP
DAC
A+5V
5V-3
12V
+12V
TO (4/5)
SC EN
B VCOM
R VCOM
15V
L5201
4.7μH
C5222 0.1 25V B:CHIP
C5223 47 25V :AL-CP
+15V
Q5201
HN1B01FU-T
BUFF
Q5203
HN1B01FU-T
BUFF
R5201 100 :CHIP
R5202 2.2k :CHIP
R5203 2.2k :CHIP
R5204 2.2 :CHIP
R5207 2.2 :CHIP
R5208 0 :CHIP
A
FROM (1/5)
RESN
R5220 1k
R5211 #
R5212 100:CHIP
R5213 100:CHIP
SCL
SDA
R5214 100 :CHIP
R5215 100 :CHIP
R5216 100 :CHIP
R5217 100 :CHIP
C5201 0.1 25V B:CHIP
C5202 0.1 25V B:CHIP
C5216 #
C5230 #
C5224 #
R5261 27k :RN-CP
GINV
TP5201
R5275 100 :CHIP
FROM (5/5)
PANNEL CONT
FROM (2/5)
G OUT
SID-OUT
V33
5V-2
FB5227 0UH
DLY-CON
OCLK
INV-CON
C5219 #
C5217 47 16V :AL-CP
C5218 0.1 25V B:CHIP
PRG PLS
D+5V
IC5211
CXA2112
LCD DRIVER
(G)
R5274 100 :CHIP
C5228 100 16V :AL-CP
C5229 0.1 25V B:CHIP
C5227 0.1 25V B:CHIP
R5267 10 :CHIP
R5266 10 :CHIP
R5265 10 :CHIP
R5264 10 :CHIP
R5263 10 :CHIP
R5262 10 :CHIP
R5256 10k :CHIP
R5210 10k :CHIP
POS-CON1
POS-CON2
DIR-CON
C
FROM (2/5)
CN5201
24P
:FPD
1 PSIG
2 SIG4
3 SIG3
4 SIG5
5 SIG2
6 SIG6
7 SIG1
8 HVDD
9 XRGT
10 MODE3
11 MODE2
12 MODE1
13 HST
14 HCK2
15 HCK1
16 VSS
17 BLK
18 ENB
19 VCK
20 VST
21 PCG
22 DWN
23 VVDD
24 COM
TO LCD PANEL
(G)
HST
HCK2G
HCK1G
ENB
VCK
VST
PCG
DWN
FRP
1
2
3
4
5
A
B
C
D
E
F
G
H

C (3/5)

(LCD DRIVER(GREEN))

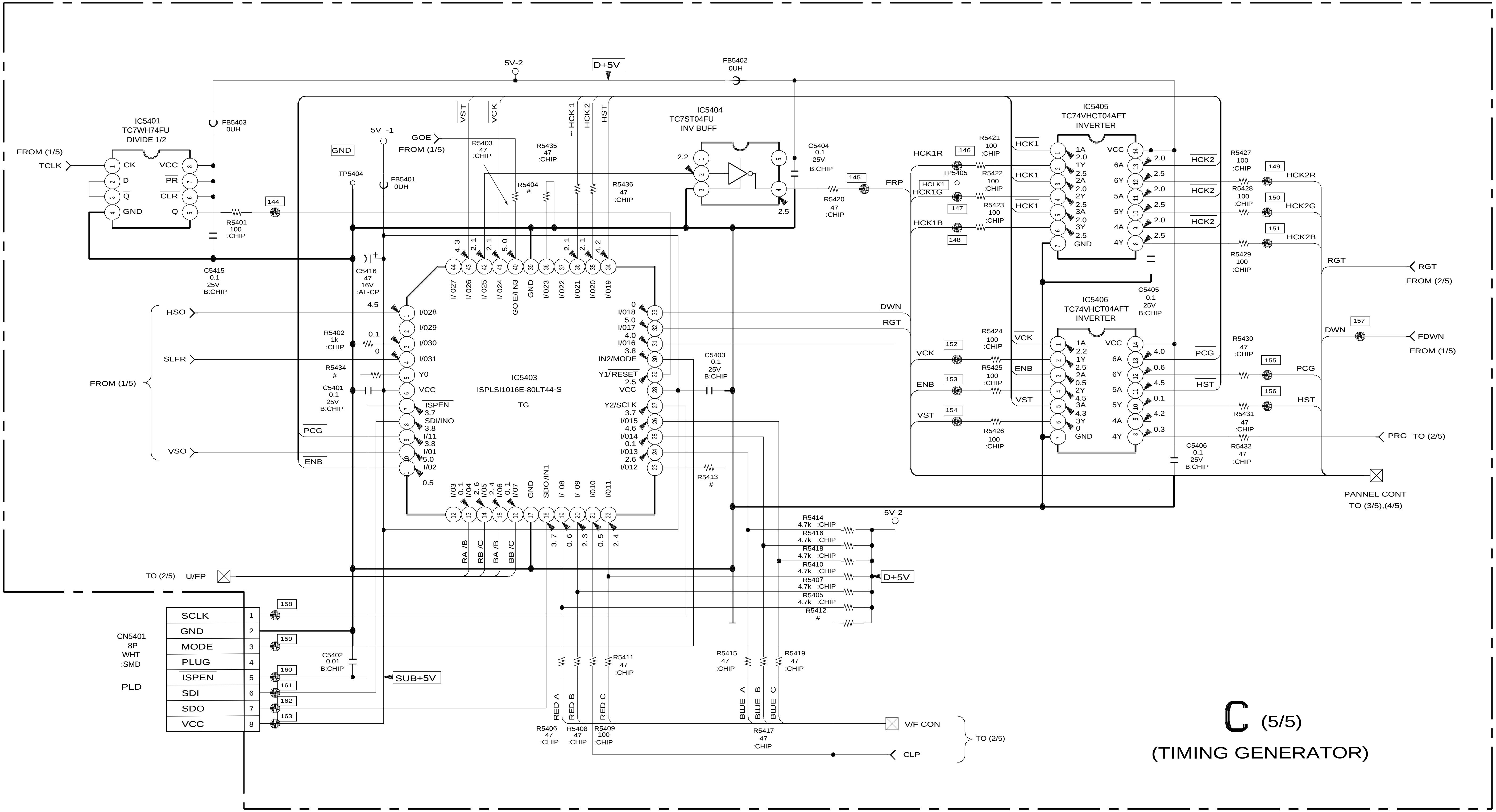
B-SS1678<AEP>-C..-P3

- Refer to page 8-18, 19 for PRINTED WIRING BOARD
- Refer to page 8-19 for WAVEFORMS
- Refer to page 8-20 for IC BLOCK DIAGRAMS



1
2
3
4
5
15V
L5301 4.7μH
+15V
R5309 2.2k :CHIP
Q5303 HN1B01FU-T BUFF
C5306 0.1 25V B:CHIP
C5307 47 25V :AL-CP
R5313 100 :CHIP
R5310 2.2 :CHIP
R5314 0 :CHIP
Q5304 HN1B01FU-T BUFF
R5311 2.2 :CHIP
R5312 2.2k :CHIP
FROM (3/5) B VCOM SCEN
FROM (2/5) B OUT
BINV
TP5301
C5304 #
C5330 #
R5308 27k RN-CP
C5308 #
FROM (5/5) PANNEL CONT
FRP
R5351 100 :CHIP
SID-OUT
V33
5V-2
FB5353 0UH
DLY-CON
FROM (1/5) OCLK OCLK
INV-CON
C5301 47 16V :AL-CP
C5303 #
C5302 0.1 25V B:CHIP
PRG PLS
POS-CON1
POS-CON2
D+5V
R5303 10k :CHIP
R5322 10k :CHIP
C FROM (2/5)
IC5302 CXA2112 LCD DRIVER (B)
R5321 100 :CHIP
C5313 0.1 25V B:CHIP
C5312 100 16V :AL-CP
R5320 10 :CHIP
R5319 10 :CHIP
R5318 10 :CHIP
C5311 0.1 25V B:CHIP
R5317 10 :CHIP
R5316 10 :CHIP
R5315 10 :CHIP
CN5301 24P :FPD
1 PSIG
2 SIG4
3 SIG3
4 SIG5
5 SIG2
6 SIG6
7 SIG1
8 HVDD
9 RGT
10 MODE3
11 MODE2
12 MODE1
13 HST
14 HCK1
15 HCK2
16 VSS
17 BLK
18 ENB
19 VCK
20 VST
21 PCG
22 DWN
23 VVDD
24 COM
TO LCD PANEL (B)
RGT HST HCK1B HCK2B ENB VCK VST PCG DWN
15V
L5302 4.7μH
+15V
R5301 2.2k :CHIP
Q5302 HN1B01FU-T BUFF
C5323 47 25V :AL-CP
C5322 0.1 25V B:CHIP
R5306 100 :CHIP
R5302 2.2 :CHIP
R5307 0 :CHIP
Q5301 HN1B01FU-T BUFF
R5304 2.2 :CHIP
R5305 2.2k :CHIP
FROM (3/5) R VCOM SCEN
FROM (2/5) R OUT
RINV
TP5304
C5305 #
C5331 #
R5331 27k RN-CP
C5324 #
FROM (5/5) PANNEL CONT
R5352 100 :CHIP
FB5354 0UH
C5317 47 16V :AL-CP
C5319 #
C5318 0.1 25V B:CHIP
IC5305 CXA2112 LCD DRIVER (R)
C5328 100 16V :AL-CP
C5329 0.1 25V B:CHIP
R5344 100 :CHIP
R5343 10 :CHIP
R5342 10 :CHIP
R5341 10 :CHIP
C5327 0.1 25V B:CHIP
R5340 10 :CHIP
R5339 10 :CHIP
R5338 10 :CHIP
R5326 10k :CHIP
R5323 10k :CHIP
TP5302 SIG1
CN5302 24P :FPD
TO LCD PANEL (R)
HCK1R HCK2R
FROM (2/5) C
FROM (1/5) OCLK OCLK
R5347 # R5348 # R5349 # R5350 #
C (4/5)
(LCD DRIVER(BLUE/RED))
B-SS1678<AEP>-C..-P4

- Refer to page 8-18, 19 for PRINTED WIRING BOARD
- Refer to page 8-20 for IC BLOCK DIAGRAMS


5V-2
D+5V
FB5402 0UH
IC5401 TC7WH74FU DIVIDE 1/2
FB5403 0UH
FROM (1/5)
TCLK
CK D Q GND VCC PR CLR Q
R5401 100 :CHIP
144
C5415 0.1 25V B:CHIP
GND
TP5404
5V -1
GOE
FROM (1/5)
FB5401 0UH
C5416 47 16V :AL-CP
VST
VCK
HCK 1
HCK 2
HST
R5403 47 :CHIP
R5435 47 :CHIP
R5404 #
R5436 47 :CHIP
IC5404 TC7ST04FU INV BUFF
C5404 0.1 25V B:CHIP
145
FRP
R5420 47 :CHIP
IC5403 ISPLSI1016E-80LT44-S TG
HSO
SLFR
VSO
FROM (1/5)
R5402 1k :CHIP
R5434 #
C5401 0.1 25V B:CHIP
PCG
ENB
I/028 I/029 I/030 I/031 Y0 VCC ISPEN SDI/INO I/11 I/01 I/02
I/018 I/017 I/016 IN2/MODE Y1/RESET VCC Y2/SCLK I/015 I/014 I/013 I/012
I/027 I/026 I/025 I/024 GOE/IN3 GND I/023 I/022 I/021 I/020 I/019
I/03 I/04 I/05 I/06 I/07 GND SDO/IN1 I/08 I/09 I/010 I/011
C5403 0.1 25V B:CHIP
R5413 #
DWN
RGT
HCK1R
HCK1G
HCK1B
146 147 148
TP5405
HCLK1
R5421 100 :CHIP
R5422 100 :CHIP
R5423 100 :CHIP
IC5405 TC74VHCT04AFT INVERTER
HCK1
HCK2
R5427 100 :CHIP
R5428 100 :CHIP
R5429 100 :CHIP
149 150 151
HCK2R
HCK2G
HCK2B
RGT
RGT FROM (2/5)
C5405 0.1 25V B:CHIP
IC5406 TC74VHCT04AFT INVERTER
VCK
ENB
VST
152 153 154
R5424 100 :CHIP
R5425 100 :CHIP
R5426 100 :CHIP
PCG
HST
R5430 47 :CHIP
R5431 47 :CHIP
R5432 47 :CHIP
155 156 157
DWN
FDWN FROM (1/5)
PCG
HST
PRG TO (2/5)
C5406 0.1 25V B:CHIP
PANNEL CONT TO (3/5),(4/5)
5V-2
R5414 4.7k :CHIP
R5416 4.7k :CHIP
R5418 4.7k :CHIP
R5410 4.7k :CHIP
R5407 4.7k :CHIP
R5405 4.7k :CHIP
R5412 #
D+5V
TO (2/5) U/FP
RA/B RB/C BA/B BB/C
CN5401 8P WHT :SMD
PLD
SCLK 1
GND 2
MODE 3
PLUG 4
ISPEN 5
SDI 6
SDO 7
VCC 8
158 159 160 161 162 163
C5402 0.01 B:CHIP
SUB+5V
R5411 47 :CHIP
RED A RED B RED C
R5406 47 :CHIP
R5408 47 :CHIP
R5409 100 :CHIP
R5415 47 :CHIP
R5419 47 :CHIP
BLUE A BLUE B BLUE C
R5417 47 :CHIP
V/F CON
CLP
TO (2/5)
B-SS1678<AEP>-C..-P5

C (5/5)

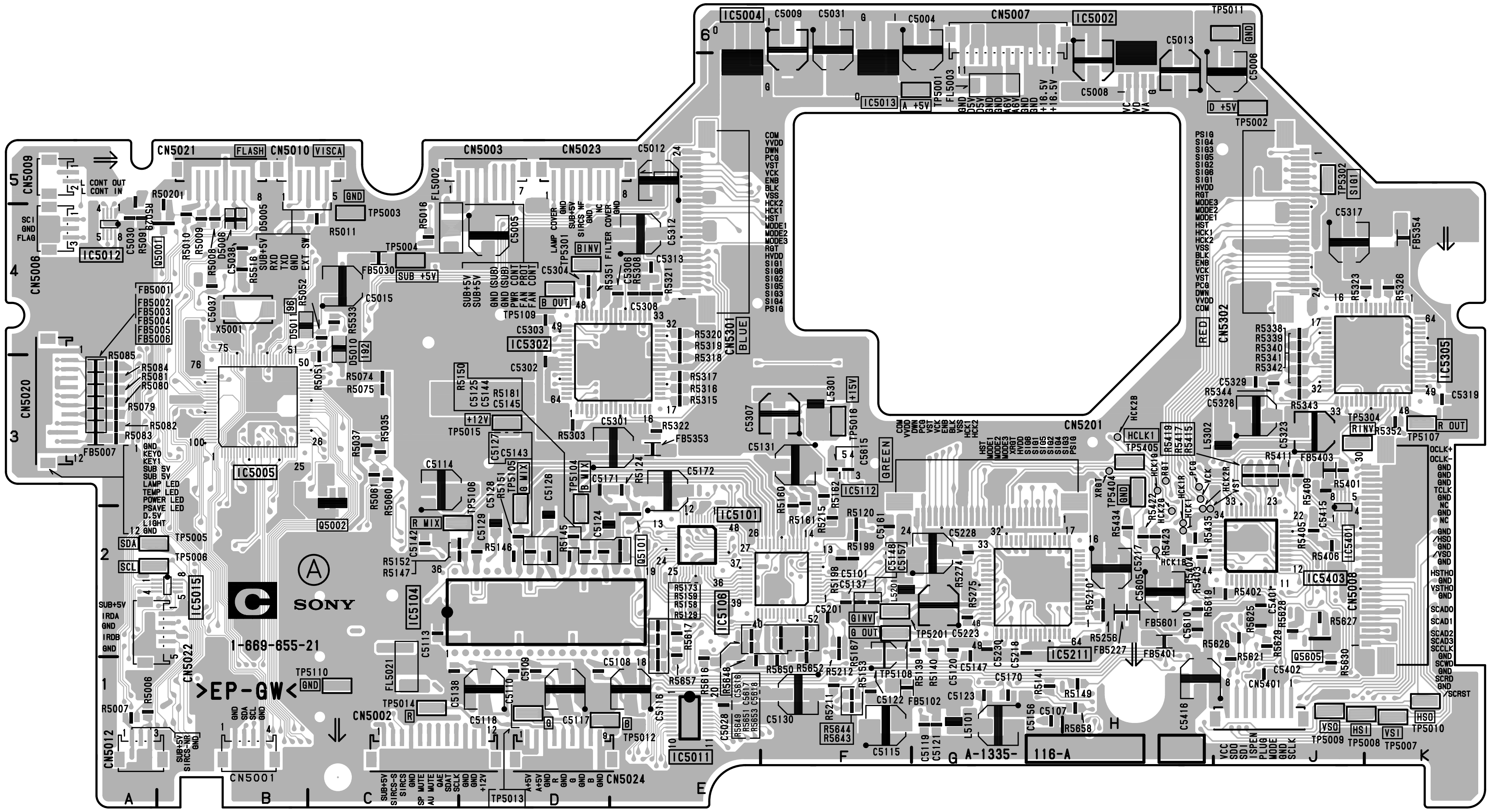
(TIMING GENERATOR)

C BOARD

* : B SIDE

*IC5001	B-2
IC5002	H-5
*IC5003	C-4
IC5004	E-5
IC5005	B-3
*IC5006	C-4
*IC5007	B-2
*IC5008	C-3
*IC5009	B-2
IC5011	E-1
IC5012	A-4
IC5013	F-5
*IC5014	B-1
IC5015	B-2
*IC5016	A-2
*IC5017	J-2
IC5101	E-2
*IC5102	H-1
*IC5103	G-1
*IC5104	D-2
*IC5105	C-2
IC5106	F-2
*IC5107	H-1
*IC5108	E-2
*IC5109	E-2
*IC5110	J-2
*IC5111	J-1
IC5112	F-3
*IC5201	F-2
IC5211	G-2
IC5302	D-4
IC5305	K-4
IC5401	J-2
IC5403	J-2
*IC5404	J-2
*IC5405	H-2
*IC5406	J-2
Q5001	B-4
Q5002	C-3
*Q5003	C-3
Q5101	E-2
*Q5201	G-3
*Q5203	G-3
*Q5301	J-5
*Q5302	J-5
*Q5303	E-4
*Q5304	E-4
*Q5602	H-2
*Q5603	H-2
*Q5604	H-2
*D5001	A-4
*D5002	A-4
*D5003	B-5
*D5004	B-5
D5005	B-4
D5006	B-4
*D5007	D-4
*D5008	D-4
*D5009	B-4
D5010	C-4
D5011	B-4
TP5001	G-5
TP5002	J-5
TP5003	C-4
TP5004	C-4
TP5009	J-1
TP5010	K-1
TP5011	J-6
TP5012	D-1
TP5013	D-1
TP5014	C-1
TP5015	D-3
TP5016	F-3
TP5104	D-3
TP5105	D-3
TP5106	C-2
TP5107	K-3
TP5108	F-2
TP5109	D-4
TP5110	C-1
TP5201	F-2
TP5301	D-4
TP5302	J-5
TP5304	J-3
TP5404	H-3
TP5405	H-3

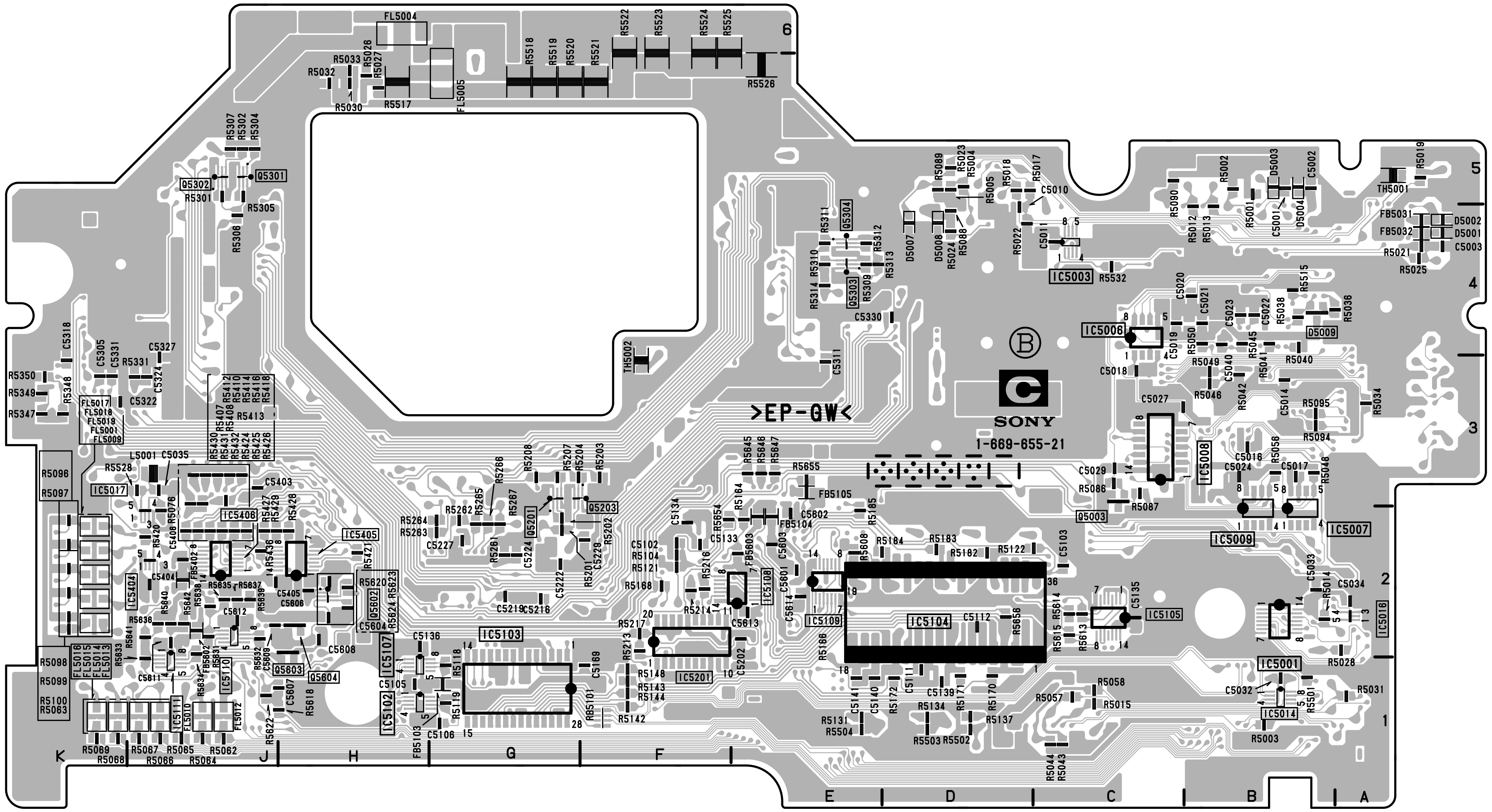
C BOARD


CN5021
CN5010
CN5003
CN5023
CN5007
CN5020
CN5001
CN5002
CN5024
CN5201
SONY
1-669-655-21
>EP-GW<
A-1335-116-A
A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
6

C -A SIDE-

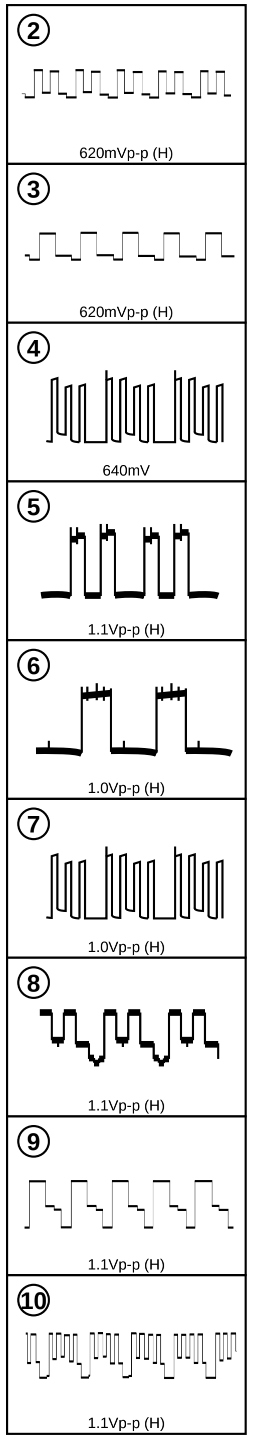
SUFFIX: -21

C BOARD

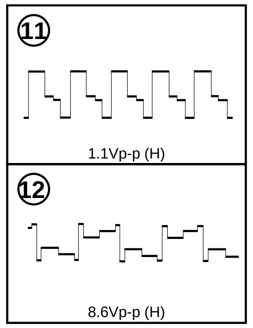

>EP-GW<
B
C
SONY
1-869-655-21
IC5001
IC5003
IC5006
IC5007
IC5008
IC5009
IC5014
IC5016
IC5017
IC5102
IC5103
IC5104
IC5105
IC5107
IC5108
IC5109
IC5110
IC5111
IC5201
IC5404
IC5405
IC5408
Q5003
Q5201
Q5203
Q5301
Q5302
Q5303
Q5304
Q5602
Q5603
Q5604
D5009
FL5004
FL5005
TH5001
TH5002
A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
6

C **-B SIDE-**
SUFFIX: -21

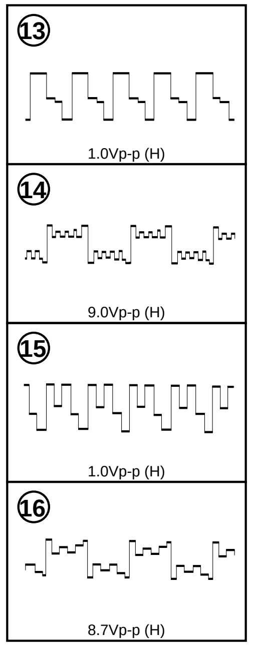
C BOARD
WAVEFORMS (2/5)



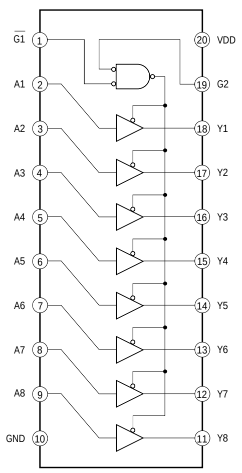
C BOARD
WAVEFORMS (3/5)



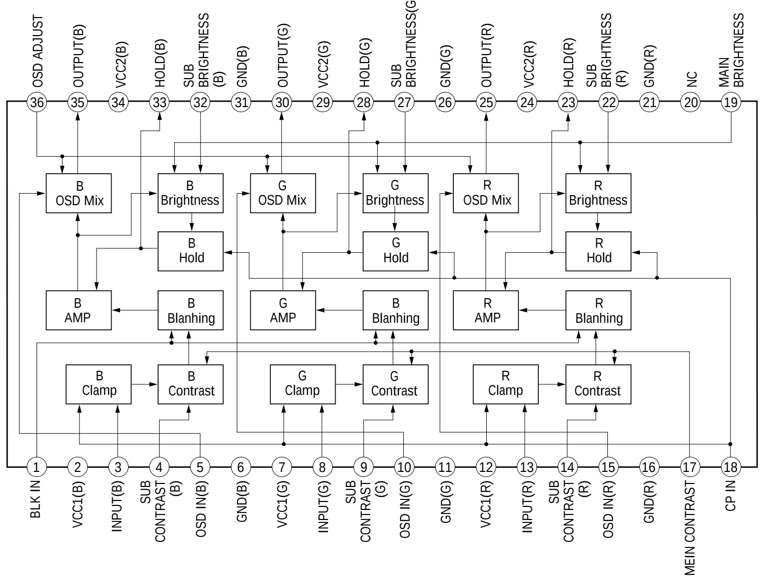
C BOARD
WAVEFORMS (4/5)



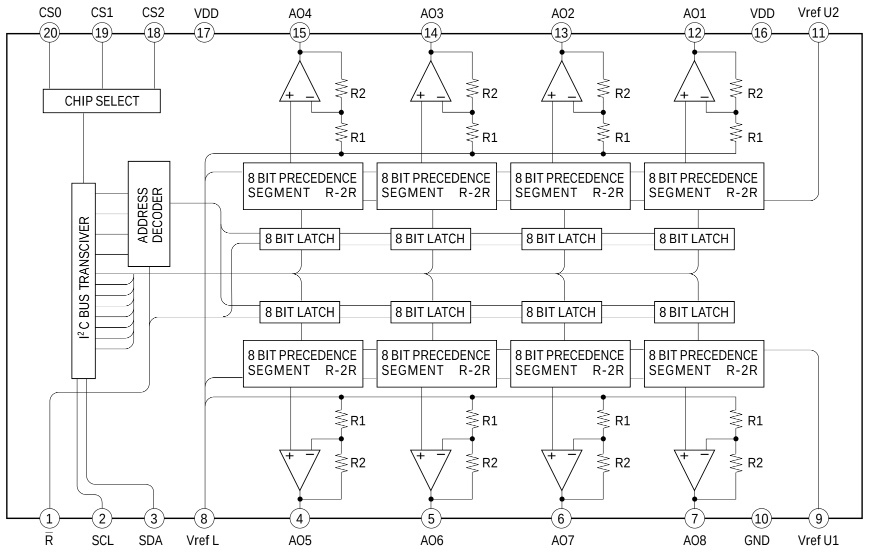
C BOARD (1/5) IC5011 TC74VHC541FT


G1
A1
A2
A3
A4
A5
A6
A7
A8
GND
VDD
G2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8

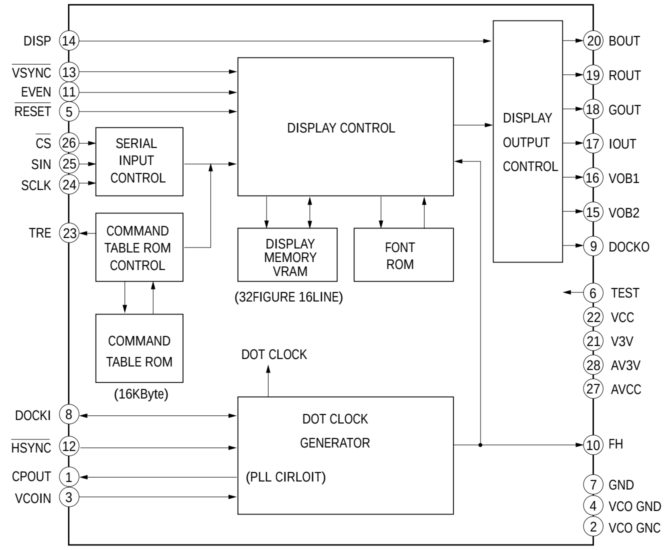
C BOARD (2/5) IC5104 M52337SP


OSD ADJUST
OUTPUT(B)
VCC2(B)
HOLD(B)
SUB BRIGHTNESS (B)
GND(B)
OUTPUT(G)
VCC2(G)
HOLD(G)
SUB BRIGHTNESS(G)
GND(G)
OUTPUT(R)
VCC2(R)
HOLD(R)
SUB BRIGHTNESS (R)
GND(R)
NC
MAIN BRIGHTNESS
B OSD Mix
B Brightness
G OSD Mix
G Brightness
R OSD Mix
R Brightness
B Hold
G Hold
R Hold
B AMP
B Blanhing
G AMP
G Blanhing
R AMP
R Blanhing
B Clamp
B Contrast
G Clamp
G Contrast
R Clamp
R Contrast
BLK IN
VCC1(B)
INPUT(B)
SUB CONTRAST (B)
OSD IN(B)
GND(B)
VCC1(G)
INPUT(G)
SUB CONTRAST (G)
OSD IN(G)
GND(G)
VCC1(R)
INPUT(R)
SUB CONTRAST (R)
OSD IN(R)
GND(R)
MEIN CONTRAST
CP IN

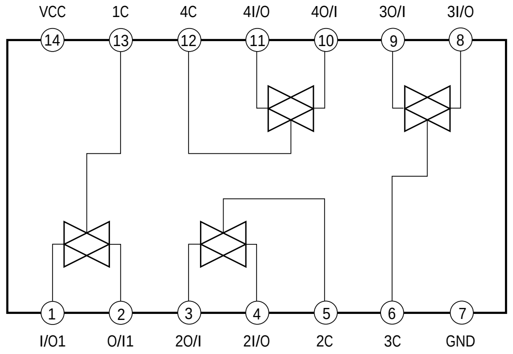
C BOARD (3/5) IC5201 M62399FP


CS0
CS1
CS2
VDD
AO4
AO3
AO2
AO1
VDD
Vref U2
CHIP SELECT
ADDRESS DECODER
I²C BUS TRANSCIVER
R2
R1
8 BIT PRECEDENCE SEGMENT R-2R
8 BIT LATCH
R
SCL
SDA
Vref L
AO5
AO6
AO7
AO8
GND
Vref U1

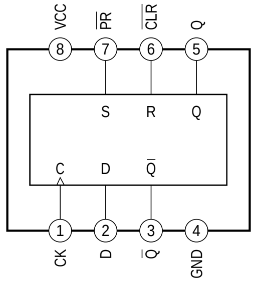
C BOARD (2/5) IC5103 MB90096PF


DISP
VSYNC
EVEN
RESET
CS
SIN
SCLK
TRE
DOCKI
HSYNC
CPOUT
VCOIN
SERIAL INPUT CONTROL
COMMAND TABLE ROM CONTROL
COMMAND TABLE ROM
(16KByte)
DISPLAY CONTROL
DISPLAY MEMORY VRAM
(32FIGURE 16LINE)
FONT ROM
DOT CLOCK
DOT CLOCK GENERATOR
(PLL CIRLOIT)
DISPLAY OUTPUT CONTROL
BOUT
ROUT
GOUT
IOUT
VOB1
VOB2
DOCKO
TEST
VCC
V3V
AV3V
AVCC
FH
GND
VCO GND
VCO GNC

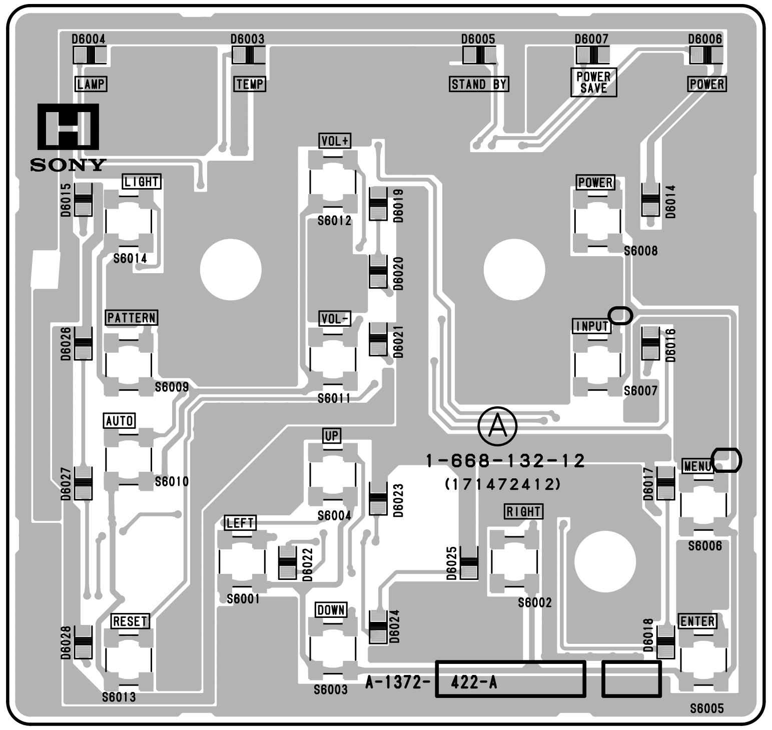
C BOARD (2/5) IC5108, 5109 TC74HC4066AFT


VCC
1C
4C
4I/O
4O/I
3O/I
3I/O
I/O1
O/I1
2O/I
2I/O
2C
3C
GND

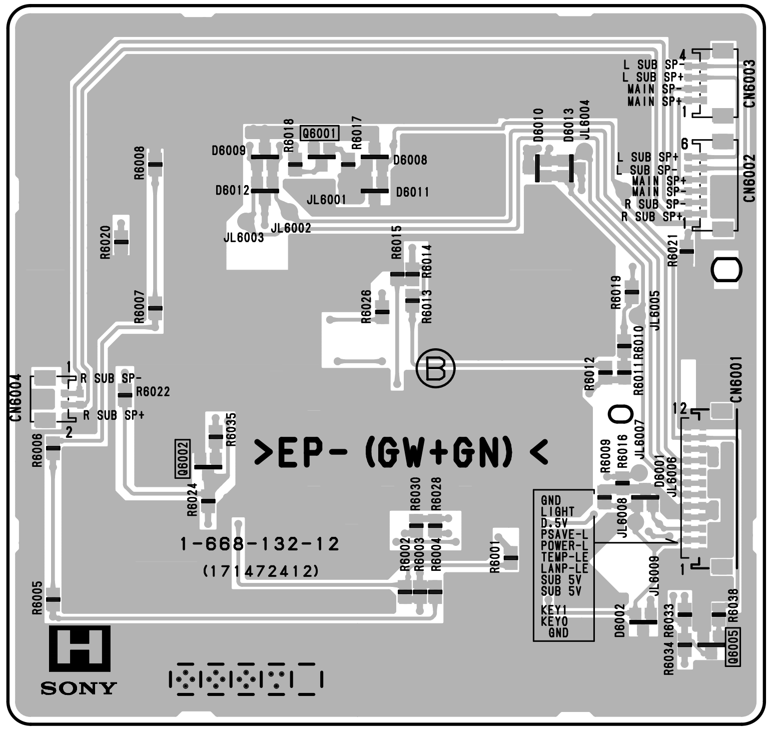
C BOARD (5/5) IC5401 TC7WH74FU


VCC
PR
CLR
Q
S
R
Q
C
D
Q̄
CK
D
Q̄
GND

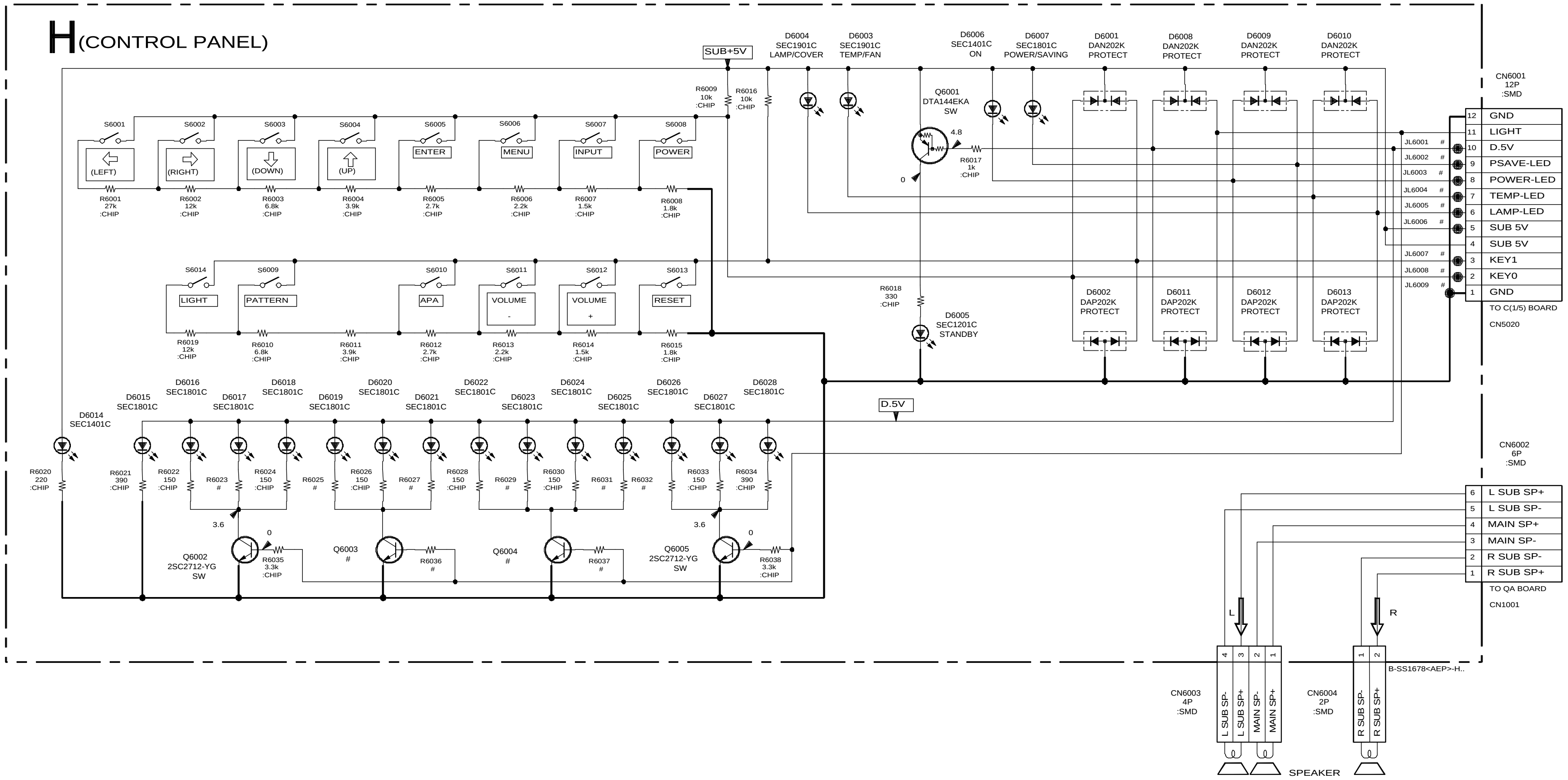
H BOARD


D6004
LAMP
D6003
TEMP
D6005
STAND BY
D6007
POWER SAVE
D6006
POWER
SONY
LIGHT
D6015
S6014
VOL+
S6012
D6019
D6020
POWER
S6008
D6014
PATTERN
D6026
S6009
VOL-
S6011
D6021
INPUT
D6016
S6007
AUTO
S6010
D6027
UP
S6004
D6023
A
1-668-132-12
(171472412)
MENU
D6017
S6006
LEFT
S6001
D6022
RIGHT
D6025
S6002
RESET
D6028
S6013
DOWN
S6003
D6024
A-1372-
422-A
D6018
ENTER
S6005

H -A SIDE-
SUFFIX: -12


L SUB SP-
L SUB SP+
MAIN SP-
MAIN SP+
CN6003
D6010
D6013
JL6004
L SUB SP+
L SUB SP-
MAIN SP+
MAIN SP-
R SUB SP-
R SUB SP+
CN6002
R6018
Q6001
R6017
D6009
D6008
R6008
D6012
JL6001
D6011
JL6002
JL6003
R6020
R6015
R6014
R6021
R6026
R6013
R6007
R6019
JL6005
R6010
B
R6012
R6011
CN6001
CN6004
R SUB SP-
R6022
R SUB SP+
R6035
R6006
Q6002
>EP- (GW+GN) <
R6009
R6016
JL6007
D6001
JL6006
R6024
R6030
R6028
GND
LIGHT
D.5V
PSAVE-L
POWER-L
TEMP-LE
LAMP-LE
SUB 5V
SUB 5V
KEY1
KEY0
GND
JL6008
1-668-132-12
(171472412)
R6002
R6003
R6004
R6001
JL6009
R6005
D6002
R6033
R6038
R6034
Q6005
SONY

H -B SIDE-
SUFFIX: -12

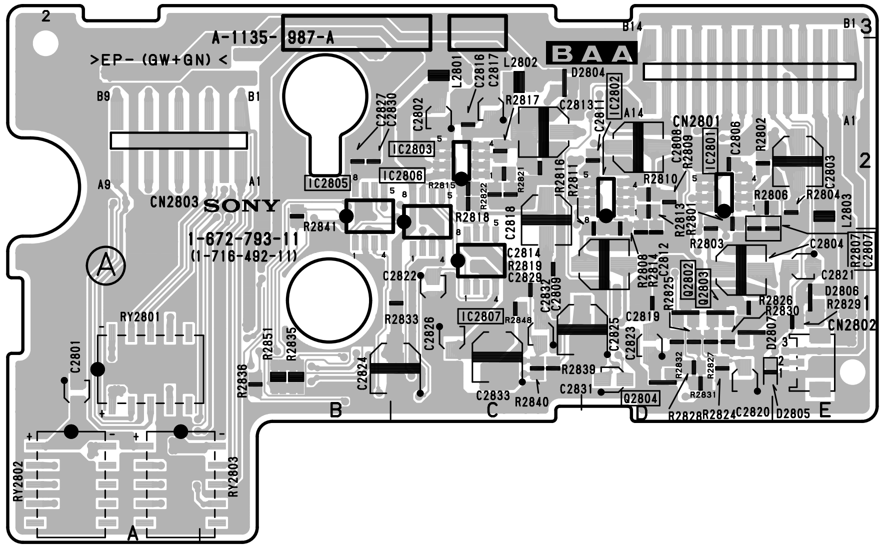

H(CONTROL PANEL)
SUB+5V
D6004 SEC1901C LAMP/COVER
D6003 SEC1901C TEMP/FAN
D6006 SEC1401C ON
D6007 SEC1801C POWER/SAVING
D6001 DAN202K PROTECT
D6008 DAN202K PROTECT
D6009 DAN202K PROTECT
D6010 DAN202K PROTECT
R6009 10k :CHIP
R6016 10k :CHIP
Q6001 DTA144EKA SW
4.8
0
R6017 1k :CHIP
S6001 (LEFT)
S6002 (RIGHT)
S6003 (DOWN)
S6004 (UP)
S6005 ENTER
S6006 MENU
S6007 INPUT
S6008 POWER
R6001 27k :CHIP
R6002 12k :CHIP
R6003 6.8k :CHIP
R6004 3.9k :CHIP
R6005 2.7k :CHIP
R6006 2.2k :CHIP
R6007 1.5k :CHIP
R6008 1.8k :CHIP
S6014 LIGHT
S6009 PATTERN
S6010 APA
S6011 VOLUME -
S6012 VOLUME +
S6013 RESET
R6019 12k :CHIP
R6010 6.8k :CHIP
R6011 3.9k :CHIP
R6012 2.7k :CHIP
R6013 2.2k :CHIP
R6014 1.5k :CHIP
R6015 1.8k :CHIP
R6018 330 :CHIP
D6005 SEC1201C STANDBY
D6002 DAP202K PROTECT
D6011 DAP202K PROTECT
D6012 DAP202K PROTECT
D6013 DAP202K PROTECT
D6014 SEC1401C
D6015 SEC1801C
D6016 SEC1801C
D6017 SEC1801C
D6018 SEC1801C
D6019 SEC1801C
D6020 SEC1801C
D6021 SEC1801C
D6022 SEC1801C
D6023 SEC1801C
D6024 SEC1801C
D6025 SEC1801C
D6026 SEC1801C
D6027 SEC1801C
D6028 SEC1801C
D.5V
R6020 220 :CHIP
R6021 390 :CHIP
R6022 150 :CHIP
R6023 #
R6024 150 :CHIP
R6025 #
R6026 150 :CHIP
R6027 #
R6028 150 :CHIP
R6029 #
R6030 150 :CHIP
R6031 #
R6032 #
R6033 150 :CHIP
R6034 390 :CHIP
3.6
0
Q6002 2SC2712-YG SW
R6035 3.3k :CHIP
Q6003 #
R6036 #
Q6004 #
R6037 #
3.6
Q6005 2SC2712-YG SW
R6038 3.3k :CHIP
JL6001 #
JL6002 #
JL6003 #
JL6004 #
JL6005 #
JL6006 #
JL6007 #
JL6008 #
JL6009 #
CN6001 12P :SMD
12 GND
11 LIGHT
10 D.5V
9 PSAVE-LED
8 POWER-LED
7 TEMP-LED
6 LAMP-LED
5 SUB 5V
4 SUB 5V
3 KEY1
2 KEY0
1 GND
TO C(1/5) BOARD CN5020
CN6002 6P :SMD
6 L SUB SP+
5 L SUB SP-
4 MAIN SP+
3 MAIN SP-
2 R SUB SP-
1 R SUB SP+
TO QA BOARD CN1001
L
R
CN6003 4P :SMD
4 L SUB SP-
3 L SUB SP+
2 MAIN SP-
1 MAIN SP+
CN6004 2P :SMD
1 R SUB SP-
2 R SUB SP+
B-SS1678<AEP>-H..
SPEAKER

BAA BOARD

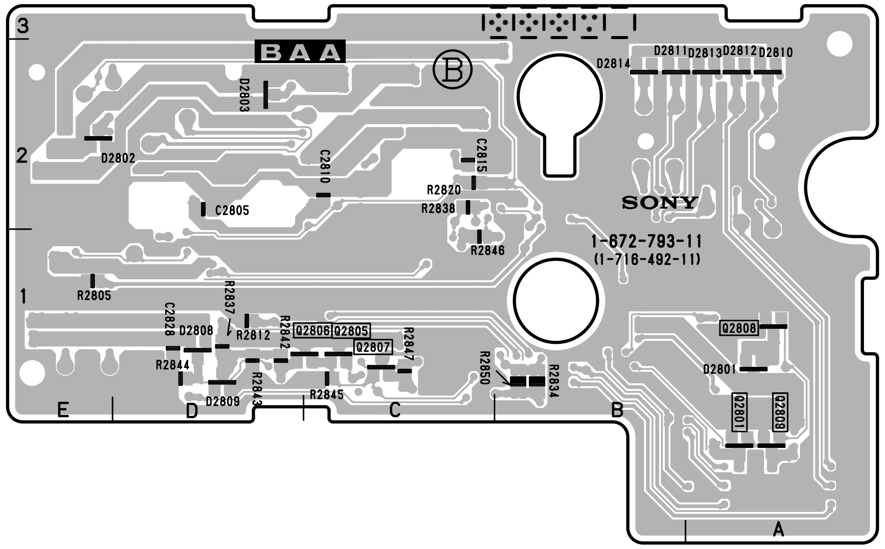
*: B SIDE

*D2801	A-1
*D2802	E-2
*D2803	D-2
D2804	C-2
D2805	D-1
D2806	E-1
D2807	D-1
*D2808	D-1
*D2809	D-1
*D2810	A-2
*D2811	B-2
*D2812	A-2
*D2813	A-2
*D2814	B-2
IC2801	D-2
IC2802	D-2
IC2803	C-2
IC2805	B-2
IC2806	C-2
IC2807	C-1
*Q2801	A-1
Q2802	D-1
Q2803	D-1
Q2804	D-1
*Q2805	C-1
*Q2806	C-1
*Q2807	C-1
*Q2808	A-1
*Q2809	A-1

BAA BOARD

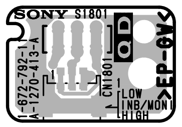

A-1135-987-A
>EP-(GW+GN)<
BAA
SONY
1-672-793-11
(1-716-492-11)
CN2801
CN2802
CN2803
RY2801
RY2802
RY2803
A
B
C
D
E
1
2
3

BAA -A SIDE-
SUFFIX: -11

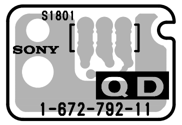

BAA
B
SONY
1-672-793-11
(1-716-492-11)
A
B
C
D
E
1
2
3

BAA -B SIDE-
SUFFIX: -11

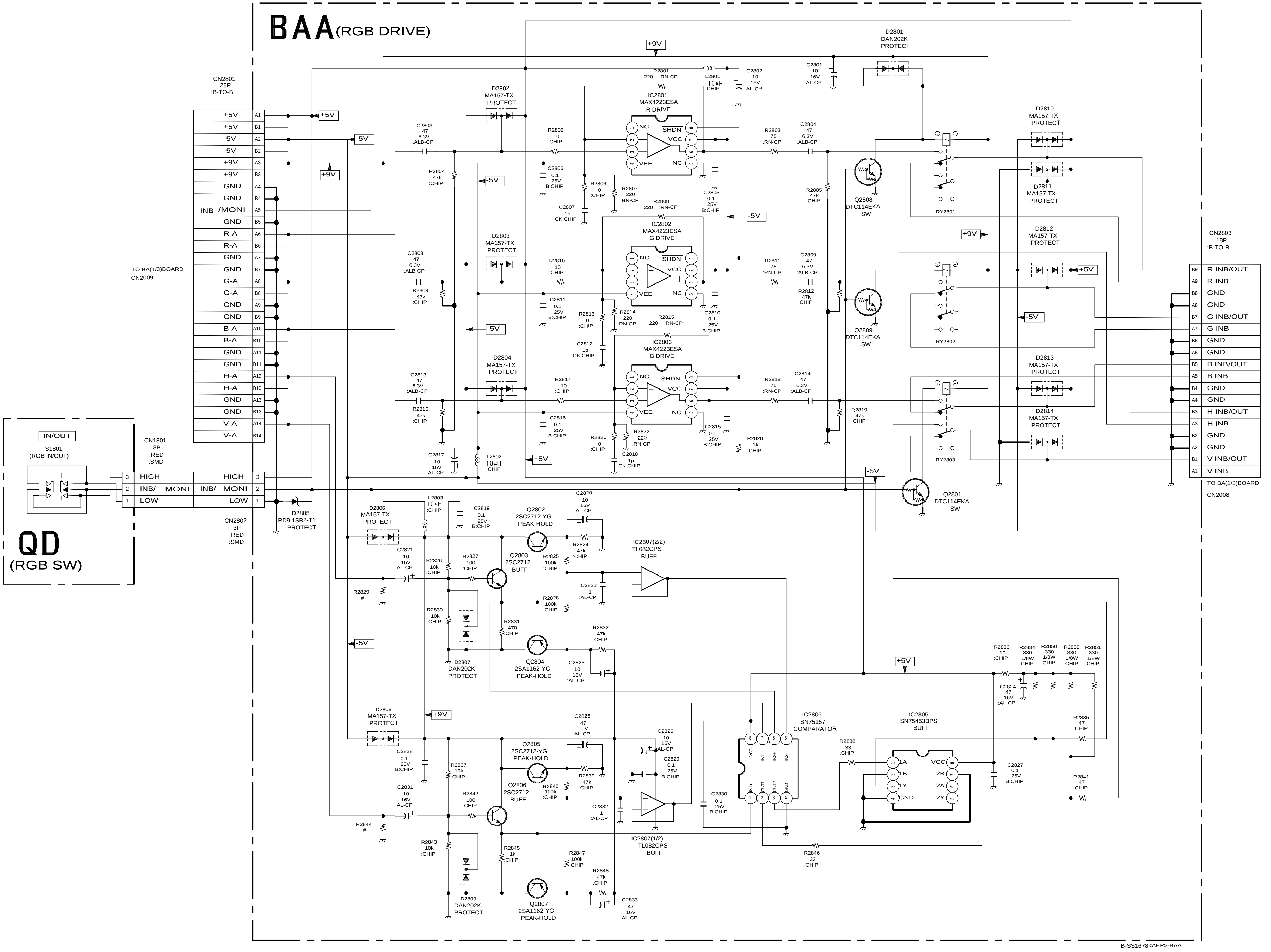
QD BOARD


SONY
S1801
QD
>EP-QV<
CN1801
LOW
NB/MON
HIGH

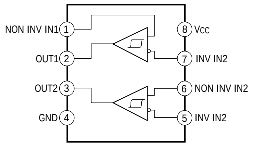
QD -A SIDE-
SUFFIX: -11


S1801
SONY
QD
1-672-792-11

QD -B SIDE-
SUFFIX: -11


BAA (RGB DRIVE)
CN2801 28P :B-TO-B
+5V A1
+5V B1
-5V A2
-5V B2
+9V A3
+9V B3
GND A4
GND B4
INB /MONI A5
GND B5
R-A A6
R-A B6
GND A7
GND B7
G-A A8
G-A B8
GND A9
GND B9
B-A A10
B-A B10
GND A11
GND B11
H-A A12
H-A B12
GND A13
GND B13
V-A A14
V-A B14
TO BA(1/3)BOARD CN2009
IC2801 MAX4223ESA R DRIVE
IC2802 MAX4223ESA G DRIVE
IC2803 MAX4223ESA B DRIVE
NC SHDN VCC VEE NC
D2801 DAN202K PROTECT
D2802 MA157-TX PROTECT
D2803 MA157-TX PROTECT
D2804 MA157-TX PROTECT
D2810 MA157-TX PROTECT
D2811 MA157-TX PROTECT
D2812 MA157-TX PROTECT
D2813 MA157-TX PROTECT
D2814 MA157-TX PROTECT
Q2808 DTC114EKA SW
Q2809 DTC114EKA SW
Q2801 DTC114EKA SW
RY2801
RY2802
RY2803
CN2803 18P :B-TO-B
B9 R INB/OUT
A9 R INB
B8 GND
A8 GND
B7 G INB/OUT
A7 G INB
B6 GND
A6 GND
B5 B INB/OUT
A5 B INB
B4 GND
A4 GND
B3 H INB/OUT
A3 H INB
B2 GND
A2 GND
B1 V INB/OUT
A1 V INB
TO BA(1/3)BOARD CN2008
IN/OUT
S1801 (RGB IN/OUT)
CN1801 3P RED :SMD
3 HIGH HIGH 3
2 INB/ MONI INB/ MONI 2
1 LOW LOW 1
CN2802 3P RED :SMD
D2805 RD9.1SB2-T1 PROTECT
QD (RGB SW)
D2806 MA157-TX PROTECT
D2808 MA157-TX PROTECT
D2807 DAN202K PROTECT
D2809 DAN202K PROTECT
Q2802 2SC2712-YG PEAK-HOLD
Q2803 2SC2712 BUFF
Q2804 2SA1162-YG PEAK-HOLD
Q2805 2SC2712-YG PEAK-HOLD
Q2806 2SC2712 BUFF
Q2807 2SA1162-YG PEAK-HOLD
IC2807(2/2) TL082CPS BUFF
IC2807(1/2) TL082CPS BUFF
IC2806 SN75157 COMPARATOR
IC2805 SN75453BPS BUFF
1A 1B 1Y GND VCC 2B 2A 2Y
L2801 10μH :CHIP
L2802 10μH :CHIP
L2803 10μH :CHIP
+9V
+5V
-5V
B-SS1678<AEP>-BAA

BAA BOARD
IC2806 SN75157

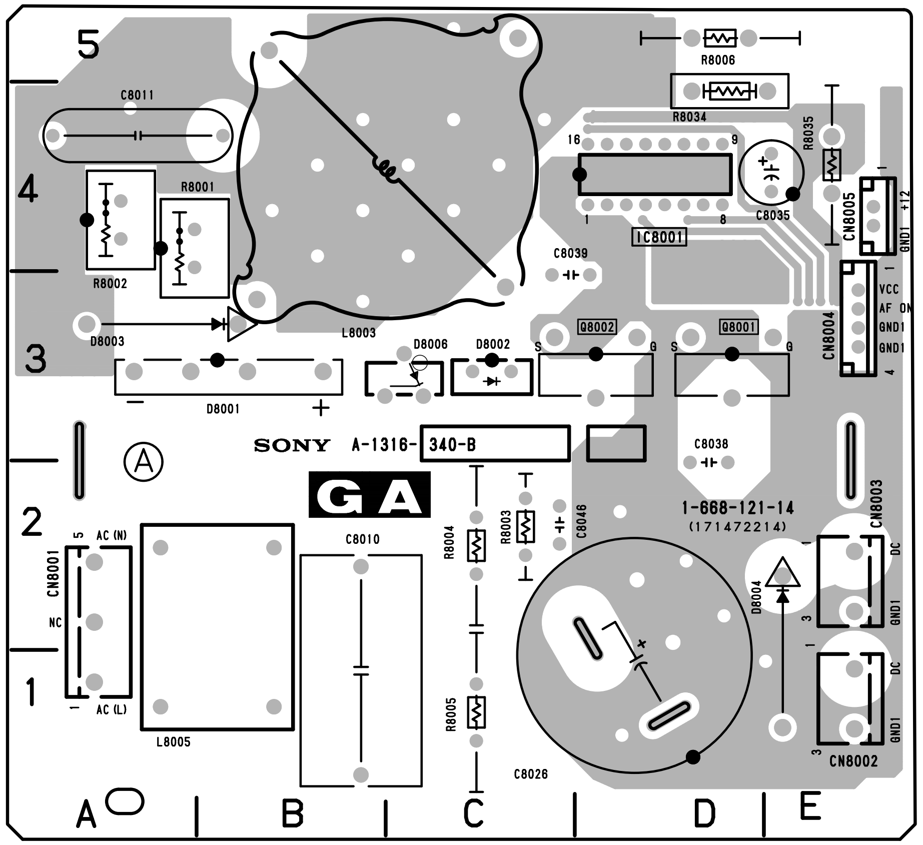

NON INV IN1 1
OUT1 2
OUT2 3
GND 4
8 Vcc
7 INV IN2
6 NON INV IN2
5 INV IN2

GA BOARD

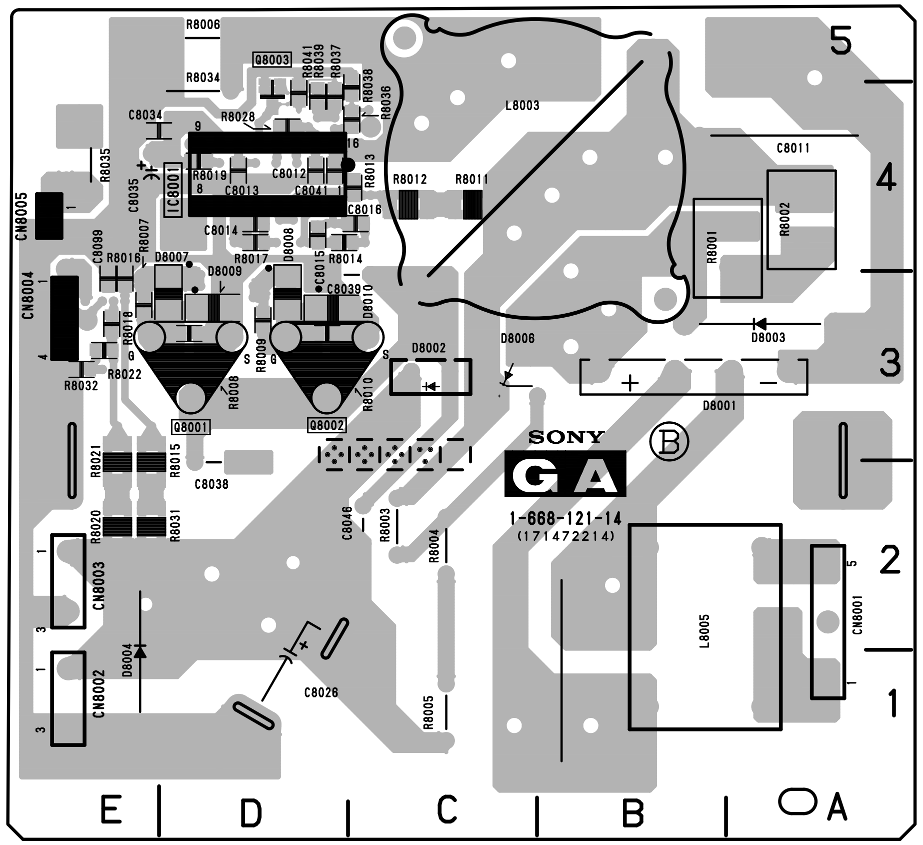
*: B SIDE

D8001	B-3
D8002	C-3
D8003	B-3
D8004	E-2
*D8006	C-3
*D8007	D-3
*D8008	D-3
*D8009	D-3
*D8010	C-3
IC8001	D-4
Q8001	D-3
Q8002	D-3
*Q8003	D-4

GA BOARD

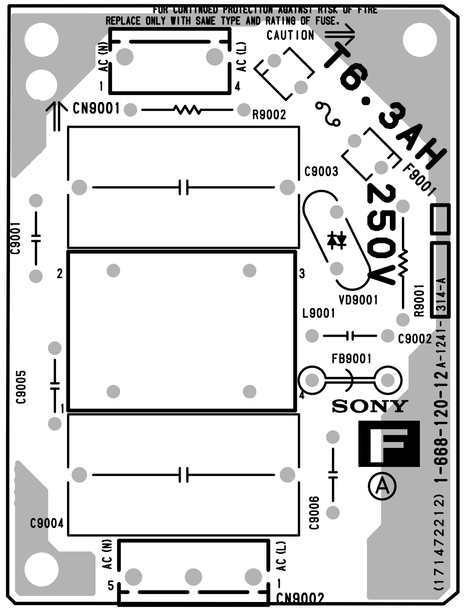

5
4
3
2
1
A
B
C
D
E
C8011
R8001
R8002
D8003
L8003
D8006
D8002
D8001
R8006
R8034
R8035
IC8001
C8035
C8039
CN8005
+12
GND1
CN8004
VCC
AF ON
GND1
Q8002
Q8001
SONY
A-1316-340-B
GA
C8038
1-668-121-14
(171472214)
CN8001
AC (N)
NC
AC (L)
L8005
C8010
R8004
R8003
C8046
R8005
C8026
D8004
CN8003
DC
GND1
CN8002

GA -A SIDE-
SUFFIX: -14

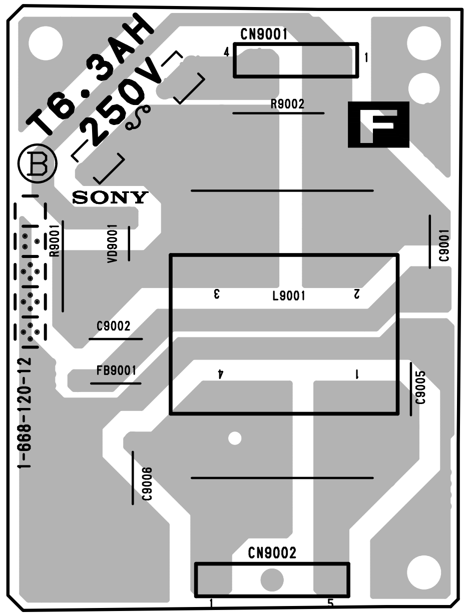

5
4
3
2
1
E
D
C
B
A
R8006
Q8003
R8034
C8034
R8028
R8035
IC8001
R8019
C8013
C8012
C8041
C8016
R8013
R8012
R8011
L8003
C8011
R8001
R8002
CN8005
CN8004
C8014
D8007
D8008
D8009
R8017
R8014
C8039
D8010
D8015
R8016
R8018
R8022
R8032
Q8001
Q8002
D8002
D8006
D8003
D8001
SONY
GA
1-668-121-14
(171472214)
C8038
R8021
R8015
R8020
R8031
CN8003
C8046
R8003
R8004
CN8002
D8004
C8026
R8005
L8005
CN8001

GA -B SIDE-
SUFFIX: -14

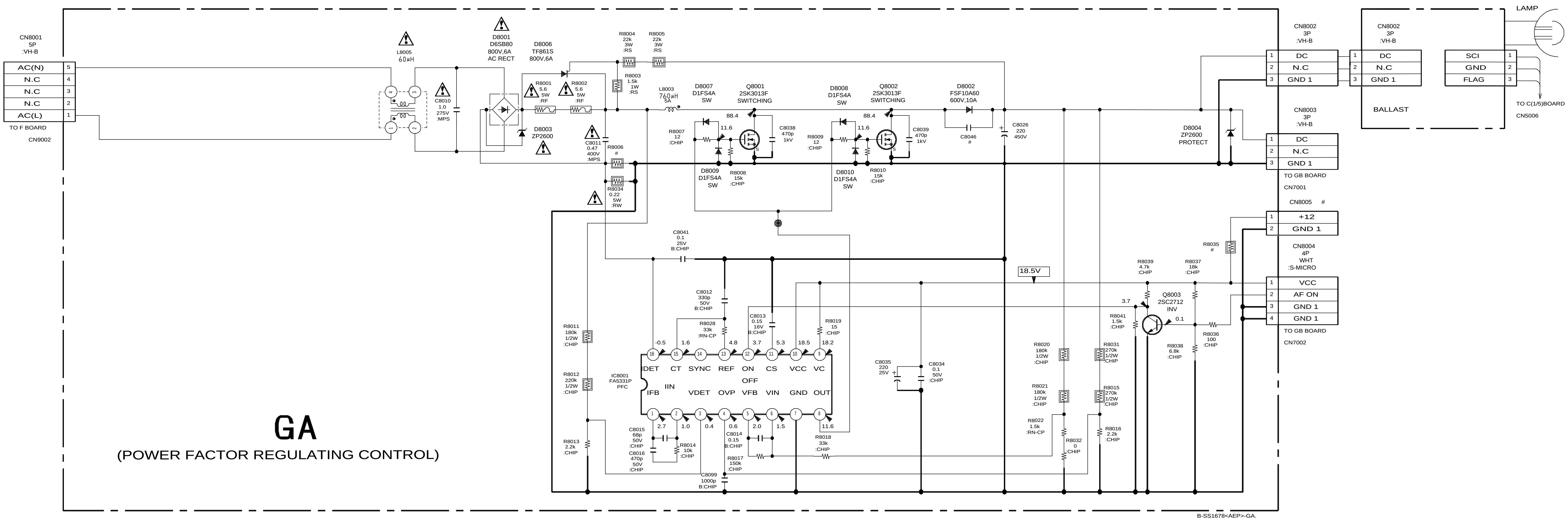
F BOARD

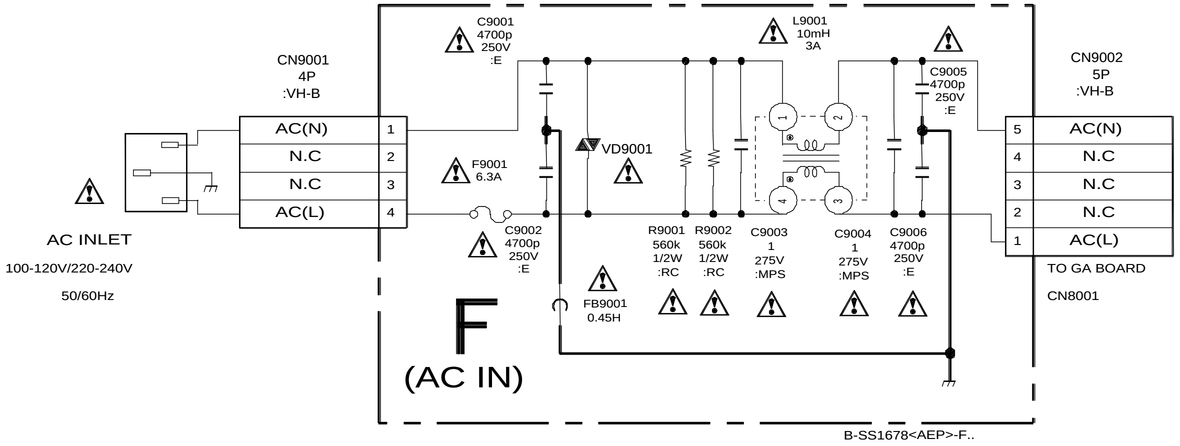

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE
REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
CAUTION
T6.3AH
250V
AC (N)
AC (L)
CN9001
R9002
C8003
F9001
C9001
VD9001
R8001
L9001
C9002
FB9001
SONY
F
1-668-120-12
A-1241-314-A
(171472212)
C9005
C9004
C9006
CN9002

F -A SIDE-
SUFFIX: -12


T6.3AH
250V
CN9001
R9002
F
SONY
R8001
VD9001
C9001
L9001
C9002
FB9001
C9005
1-668-120-12
C9006
CN9002

F -B SIDE-
SUFFIX: -12

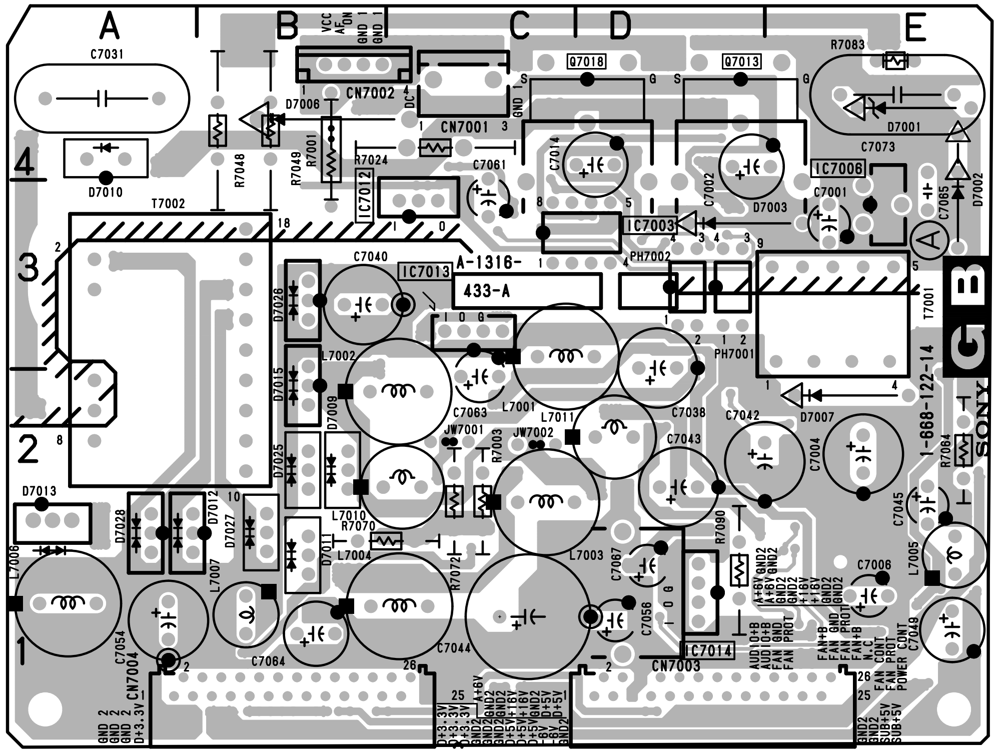

CN8001 5P :VH-B
AC(N) 5
N.C 4
N.C 3
N.C 2
AC(L) 1
TO F BOARD CN9002
L8005 60µH
C8010 1.0 275V :MPS
D8001 D6SB80 800V,6A AC RECT
D8006 TF861S 800V,6A
D8003 ZP2600
R8001 5.6 5W :RF
R8002 5.6 5W :RF
R8004 22k 3W :RS
R8005 22k 3W :RS
R8003 1.5k 1W :RS
L8003 760µH 5A
C8011 0.47 400V :MPS
R8006 #
R8034 0.22 5W :RW
D8007 D1FS4A SW
Q8001 2SK3013F SWITCHING
D8008 D1FS4A SW
Q8002 2SK3013F SWITCHING
D8002 FSF10A60 600V,10A
88.4
11.6
R8007 12 :CHIP
C8038 470p 1kV
R8009 12 :CHIP
C8039 470p 1kV
C8046 #
C8026 220 450V
D8009 D1FS4A SW
R8008 15k :CHIP
D8010 D1FS4A SW
R8010 15k :CHIP
C8041 0.1 25V B:CHIP
C8012 330p 50V B:CHIP
R8028 33k :RN-CP
C8013 0.15 16V B:CHIP
R8019 15 :CHIP
R8011 180k 1/2W :CHIP
R8012 220k 1/2W :CHIP
R8013 2.2k :CHIP
IC8001 FA5331P PFC
DET CT SYNC REF ON CS VCC VC
OFF
IFB IIN VDET OVP VFB VIN GND OUT
-0.5 1.6 4.8 3.7 5.3 18.5 18.2
2.7 1.0 0.4 0.6 2.0 1.5 11.6
C8015 68p 50V :CHIP
C8016 470p 50V :CHIP
R8014 10k :CHIP
C8014 0.15 B:CHIP
R8017 150k :CHIP
C8099 1000p B:CHIP
R8018 33k :CHIP
C8035 220 25V
C8034 0.1 50V :CHIP
18.5V
R8020 180k 1/2W :CHIP
R8021 180k 1/2W :CHIP
R8022 1.5k :RN-CP
R8032 0 :CHIP
R8031 270k 1/2W :CHIP
R8015 270k 1/2W :CHIP
R8016 2.2k :CHIP
R8039 4.7k :CHIP
R8037 18k :CHIP
R8035 #
R8041 1.5k :CHIP
Q8003 2SC2712 INV
3.7
0.1
R8038 6.8k :CHIP
R8036 100 :CHIP
D8004 ZP2600 PROTECT
CN8002 3P :VH-B
DC N.C GND 1
CN8003 3P :VH-B
DC N.C GND 1
TO GB BOARD CN7001
CN8005 #
+12 GND 1
CN8004 4P WHT :S-MICRO
VCC AF ON GND 1 GND 1
TO GB BOARD CN7002
CN8002 3P :VH-B
DC N.C GND 1
BALLAST
LAMP
SCI GND FLAG
TO C(1/5)BOARD CN5006
GA
(POWER FACTOR REGULATING CONTROL)
B-SS1678<AEP>-GA.


CN9001 4P :VH-B
AC(N) 1
N.C 2
N.C 3
AC(L) 4
AC INLET
100-120V/220-240V
50/60Hz
C9001 4700p 250V :E
F9001 6.3A
C9002 4700p 250V :E
VD9001
FB9001 0.45H
L9001 10mH 3A
R9001 560k 1/2W :RC
R9002 560k 1/2W :RC
C9003 1 275V :MPS
C9004 1 275V :MPS
C9005 4700p 250V :E
C9006 4700p 250V :E
CN9002 5P :VH-B
5 AC(N)
4 N.C
3 N.C
2 N.C
1 AC(L)
TO GA BOARD CN8001
F
(AC IN)
B-SS1678<AEP>-F..

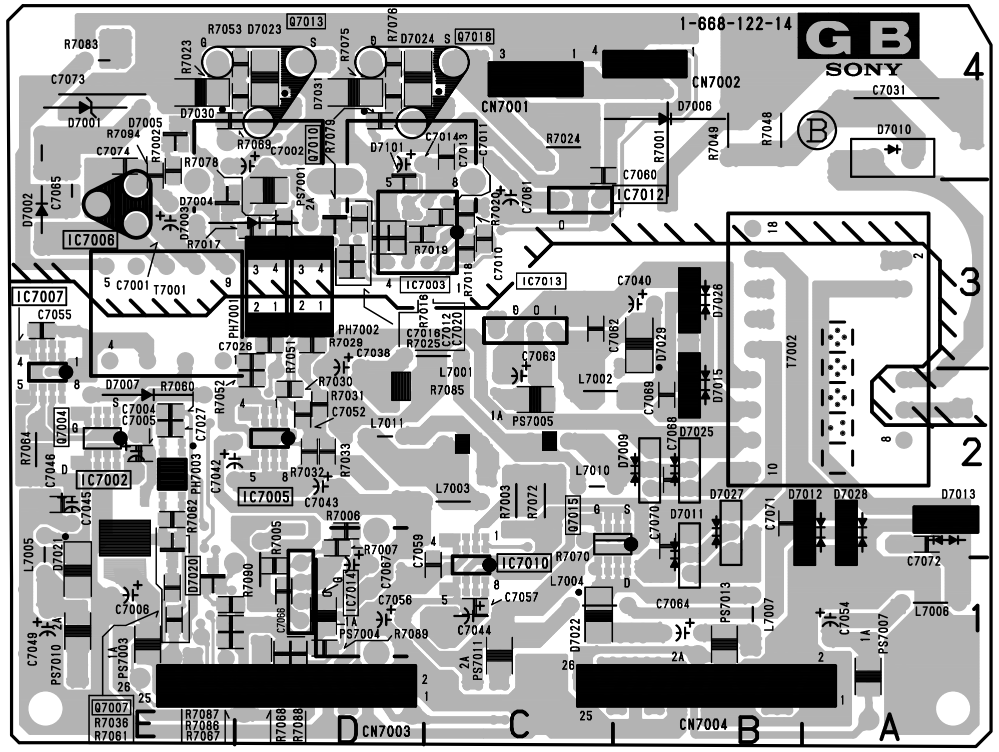
GB BOARD

GB BOARD
*: B SIDE

D7001	E-4
D7002	E-3
D7003	D-3
*D7004	E-3
*D7005	E-4
D7006	B-4
D7007	E-2
D7009	B-2
D7010	A-4
D7011	B-2
D7012	A-2
D7013	A-2
D7015	B-2
*D7020	E-1
*D7021	E-1
*D7022	C-1
*D7023	D-3
*D7024	D-4
D7025	B-2
D7026	B-3
D7027	B-2
D7028	A-2
*D7029	B-3
*D7030	E-4
*D7031	D-4
*D7101	D-4
*IC7002	D-2
IC7003	D-3
*IC7005	D-2
IC7006	E-3
*IC7007	E-2
*IC7010	C-1
IC7012	C-3
IC7013	C-3
IC7014	D-1
*Q7004	E-2
*Q7007	E-2
*Q7010	D-3
Q7013	D-4
*Q7015	B-2
Q7018	D-4

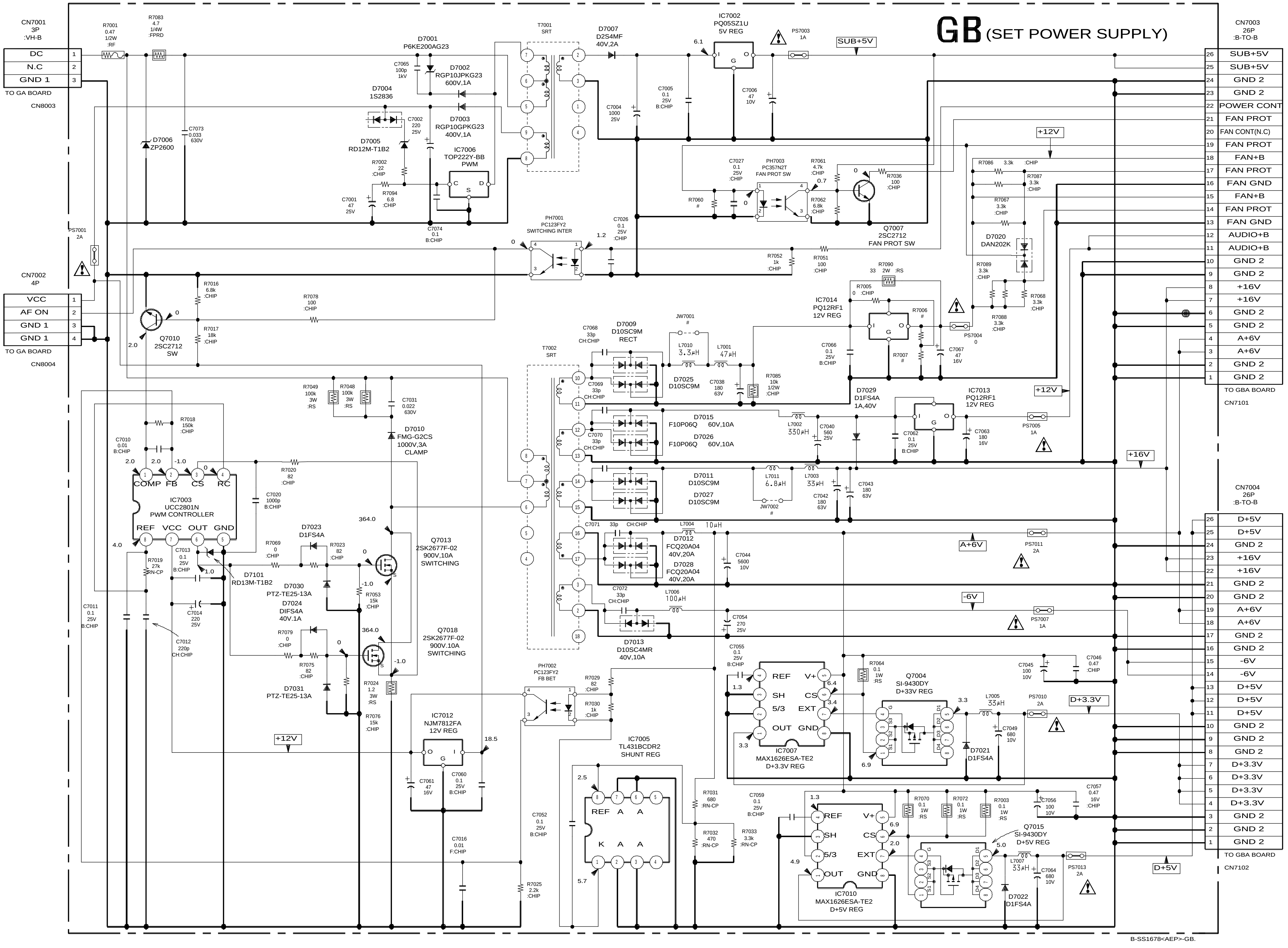

A
B
C
D
E
1
2
3
4
A-1316-
433-A
1-668-122-14
GB
SONY
CN7001
CN7002
CN7003
CN7004
T7001
T7002
IC7003
IC7006
IC7012
IC7013
IC7014
Q7013
Q7018
PH7001
PH7002

GB -A SIDE-
SUFFIX: -14

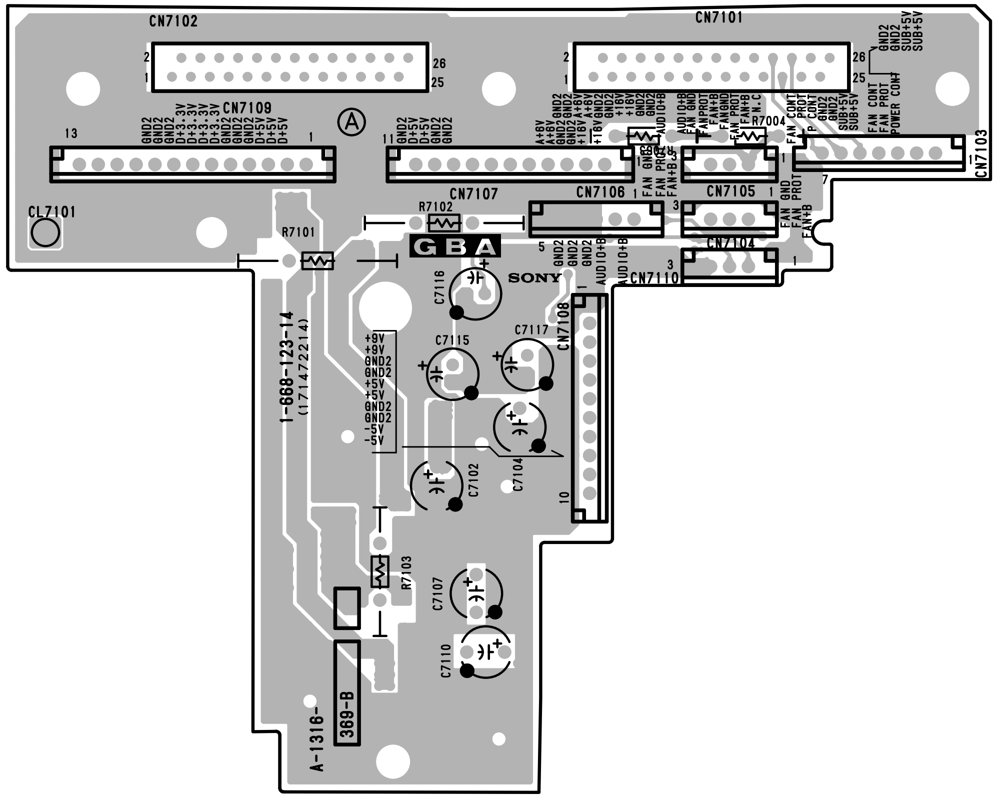

1-668-122-14
GB
SONY
A
B
C
D
E
1
2
3
4
CN7001
CN7002
CN7003
CN7004
T7001
T7002
IC7002
IC7005
IC7006
IC7007
IC7010
IC7012
IC7013
IC7003
Q7004
Q7007
Q7010
Q7013
Q7015
Q7018

GB -B SIDE-
SUFFIX: -14

http://getMANUAL.com

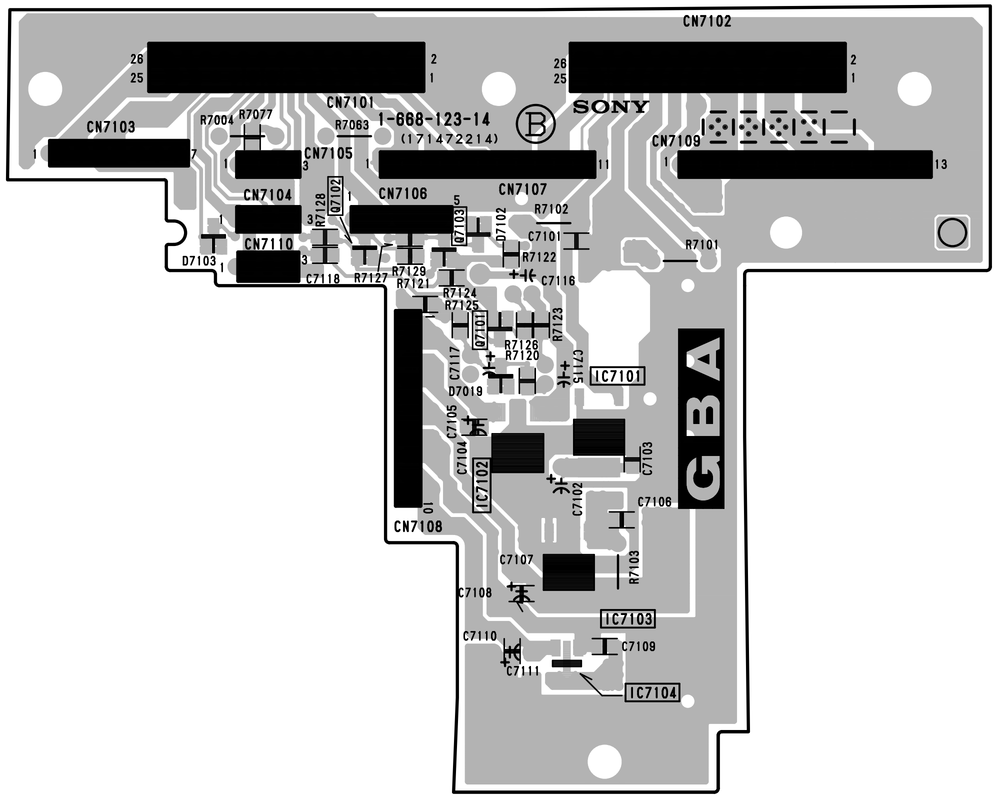

GB (SET POWER SUPPLY)
CN7001 3P :VH-B
DC
N.C
GND 1
TO GA BOARD CN8003
CN7002 4P
VCC
AF ON
GND 1
GND 1
TO GA BOARD CN8004
R7001 0.47 1/2W :RF
R7083 4.7 1/4W :FPRD
C7073 0.033 630V
D7006 ZP2600
PS7001 2A
D7001 P6KE200AG23
C7065 100p 1kV
D7002 RGP10JPKG23 600V,1A
D7004 1S2836
C7002 220 25V
D7003 RGP10GPKG23 400V,1A
D7005 RD12M-T1B2
IC7006 TOP222Y-BB PWM
R7002 22 :CHIP
R7094 6.8 :CHIP
C7001 47 25V
C7074 0.1 B:CHIP
T7001 SRT
D7007 D2S4MF 40V,2A
C7004 1000 25V
C7005 0.1 25V B:CHIP
IC7002 PQ05SZ1U 5V REG
C7006 47 10V
PS7003 1A
SUB+5V
PH7001 PC123FY2 SWITCHING INTER
C7026 0.1 25V :CHIP
C7027 0.1 25V :CHIP
PH7003 PC357N2T FAN PROT SW
R7060 #
R7061 4.7k :CHIP
R7062 6.8k :CHIP
R7036 100 :CHIP
Q7007 2SC2712 FAN PROT SW
R7052 1k :CHIP
R7051 100 :CHIP
R7090 33 2W :RS
+12V
R7086 3.3k :CHIP
R7087 3.3k :CHIP
R7067 3.3k :CHIP
D7020 DAN202K
R7089 3.3k :CHIP
R7088 3.3k :CHIP
R7068 3.3k :CHIP
R7016 6.8k :CHIP
R7017 18k :CHIP
R7078 100 :CHIP
Q7010 2SC2712 SW
R7018 150k :CHIP
C7010 0.01 B:CHIP
R7049 100k 3W :RS
R7048 100k 3W :RS
C7031 0.022 630V
D7010 FMG-G2CS 1000V,3A CLAMP
IC7003 UCC2801N PWM CONTROLLER
COMP FB CS RC
REF VCC OUT GND
R7020 82 :CHIP
C7020 1000p B:CHIP
R7019 27k :RN-CP
C7013 0.1 25V B:CHIP
C7014 220 25V
C7011 0.1 25V B:CHIP
C7012 220p CH:CHIP
D7023 D1FS4A
R7069 0 :CHIP
R7023 82 :CHIP
D7101 RD13M-T1B2
D7030 PTZ-TE25-13A
D7024 DIFS4A 40V.1A
R7053 15k :CHIP
Q7013 2SK2677F-02 900V,10A SWITCHING
R7079 0 :CHIP
R7075 82 :CHIP
D7031 PTZ-TE25-13A
Q7018 2SK2677F-02 900V.10A SWITCHING
R7024 1.2 3W :RS
R7076 15k :CHIP
IC7012 NJM7812FA 12V REG
C7061 47 16V
C7060 0.1 25V B:CHIP
C7016 0.01 F:CHIP
PH7002 PC123FY2 FB BET
R7029 82 :CHIP
R7030 1k :CHIP
C7052 0.1 25V B:CHIP
R7025 2.2k :CHIP
IC7005 TL431BCDR2 SHUNT REG
REF A A
K A A
R7031 680 :RN-CP
R7032 470 :RN-CP
R7033 3.3k :RN-CP
T7002 SRT
C7068 33p CH:CHIP
D7009 D10SC9M RECT
C7069 33p CH:CHIP
D7025 D10SC9M
JW7001 #
L7010 3.3μH
L7001 47μH
C7038 180 63V
R7085 10k 1/2W :CHIP
IC7014 PQ12RF1 12V REG
C7066 0.1 25V B:CHIP
R7005 0 :CHIP
R7006 #
R7007 #
C7067 47 16V
PS7004 0
D7029 D1FS4A 1A,40V
IC7013 PQ12RF1 12V REG
PS7005 1A
C7070 33p CH:CHIP
D7015 F10P06Q 60V,10A
D7026 F10P06Q 60V,10A
L7002 330μH
C7040 560 25V
C7062 0.1 25V B:CHIP
C7063 180 16V
+16V
D7011 D10SC9M
D7027 D10SC9M
L7011 6.8μH
L7003 33μH
JW7002 #
C7042 180 63V
C7043 180 63V
C7071 33p CH:CHIP
L7004 10μH
D7012 FCQ20A04 40V,20A
D7028 FCQ20A04 40V,20A
C7044 5600 10V
A+6V
PS7011 2A
C7072 33p CH:CHIP
L7006 100μH
D7013 D10SC4MR 40V,10A
C7054 270 25V
-6V
PS7007 1A
C7055 0.1 25V B:CHIP
IC7007 MAX1626ESA-TE2 D+3.3V REG
REF V+ SH CS 5/3 EXT OUT GND
R7064 0.1 1W :RS
Q7004 SI-9430DY D+33V REG
C7045 100 10V
C7046 0.47 :CHIP
L7005 33μH
PS7010 2A
D+3.3V
C7049 680 10V
D7021 D1FS4A
C7059 0.1 25V B:CHIP
IC7010 MAX1626ESA-TE2 D+5V REG
R7070 0.1 1W :RS
R7072 0.1 1W :RS
R7003 0.1 1W :RS
C7056 100 10V
C7057 0.47 16V :CHIP
Q7015 SI-9430DY D+5V REG
L7007 33μH
C7064 680 10V
PS7013 2A
D+5V
D7022 D1FS4A
CN7003 26P :B-TO-B
SUB+5V
SUB+5V
GND 2
GND 2
POWER CONT
FAN PROT
FAN CONT(N.C)
FAN PROT
FAN+B
FAN PROT
FAN GND
FAN+B
FAN PROT
FAN GND
AUDIO+B
AUDIO+B
GND 2
GND 2
+16V
+16V
GND 2
GND 2
A+6V
A+6V
GND 2
GND 2
TO GBA BOARD CN7101
CN7004 26P :B-TO-B
D+5V
D+5V
GND 2
+16V
+16V
GND 2
GND 2
A+6V
A+6V
GND 2
GND 2
-6V
-6V
D+5V
D+5V
D+5V
GND 2
GND 2
GND 2
D+3.3V
D+3.3V
D+3.3V
D+3.3V
GND 2
GND 2
GND 2
TO GBA BOARD CN7102
B-SS1678<AEP>-GB.

GBA BOARD


CN7102
CN7101
CN7109
CN7103
CN7107
CN7106
CN7105
CN7104
CN7110
CN7108
CL7101
R7101
R7102
R7103
R7004
C7116
C7115
C7117
C7102
C7104
C7107
C7110
GBA
SONY
1-668-123-14
(171472214)
A-1316-369-B

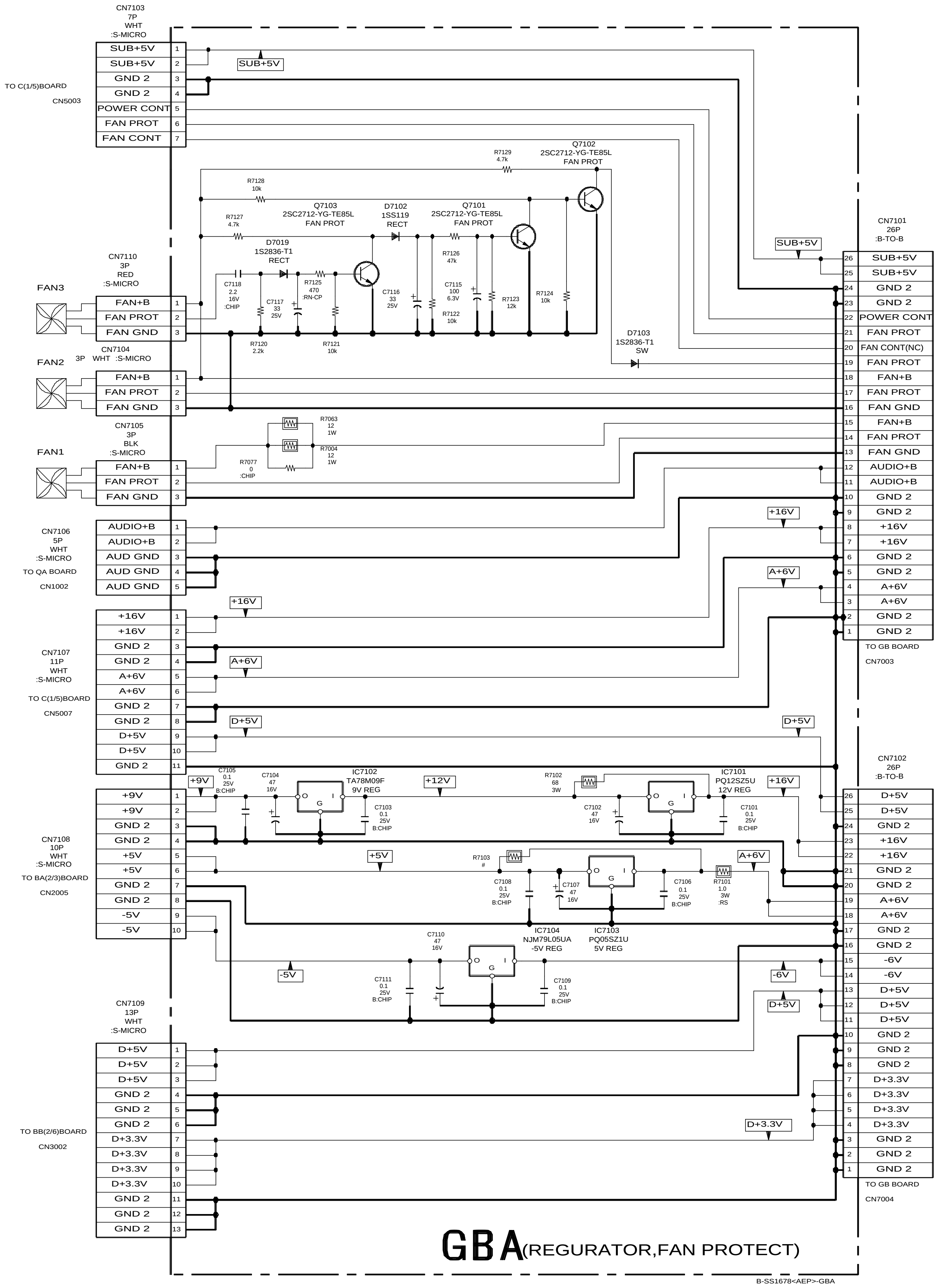
GBA **-A SIDE-**

SUFFIX: -14

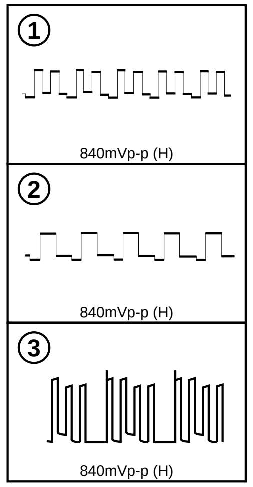

CN7102
CN7101
CN7103
CN7105
CN7104
CN7110
CN7106
CN7107
CN7109
CN7108
1-668-123-14
(171472214)
SONY
R7004
R7077
R7083
R7101
R7102
R7120
R7121
R7122
R7123
R7124
R7125
R7126
R7127
R7128
R7129
Q7101
Q7102
Q7103
D7102
D7103
D7019
C7101
C7102
C7103
C7104
C7105
C7106
C7107
C7108
C7109
C7110
C7111
C7116
C7117
C7118
IC7101
IC7102
IC7103
IC7104
GBA

GBA **-B SIDE-**

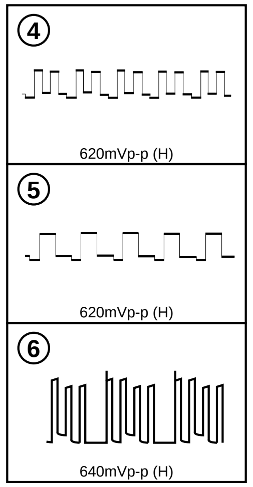
SUFFIX: -14

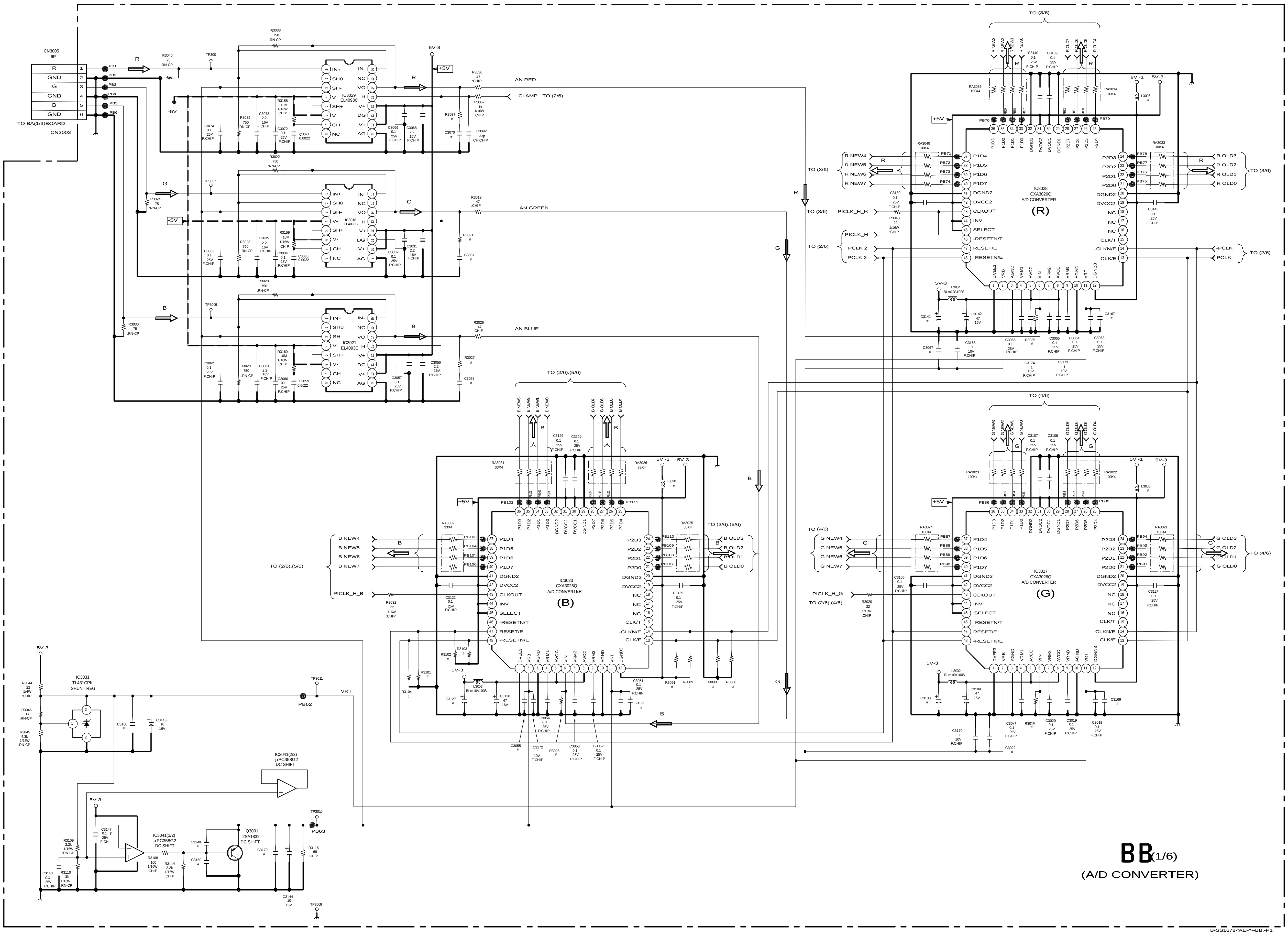

CN7103 7P WHT :S-MICRO
SUB+5V 1
SUB+5V 2
GND 2 3
GND 2 4
POWER CONT 5
FAN PROT 6
FAN CONT 7
TO C(1/5)BOARD CN5003
SUB+5V
R7129 4.7k
Q7102 2SC2712-YG-TE85L FAN PROT
R7128 10k
R7127 4.7k
Q7103 2SC2712-YG-TE85L FAN PROT
D7102 1SS119 RECT
Q7101 2SC2712-YG-TE85L FAN PROT
D7019 1S2836-T1 RECT
C7118 2.2 16V :CHIP
C7117 33 25V
R7125 470 :RN-CP
C7116 33 25V
R7126 47k
C7115 100 6.3V
R7122 10k
R7123 12k
R7124 10k
R7120 2.2k
R7121 10k
D7103 1S2836-T1 SW
CN7110 3P RED :S-MICRO
FAN3
FAN+B 1
FAN PROT 2
FAN GND 3
CN7104 3P WHT :S-MICRO
FAN2
FAN+B 1
FAN PROT 2
FAN GND 3
CN7105 3P BLK :S-MICRO
FAN1
FAN+B 1
FAN PROT 2
FAN GND 3
R7063 12 1W
R7004 12 1W
R7077 0 :CHIP
CN7106 5P WHT :S-MICRO
TO QA BOARD CN1002
AUDIO+B 1
AUDIO+B 2
AUD GND 3
AUD GND 4
AUD GND 5
CN7107 11P WHT :S-MICRO
TO C(1/5)BOARD CN5007
+16V 1
+16V 2
GND 2 3
GND 2 4
A+6V 5
A+6V 6
GND 2 7
GND 2 8
D+5V 9
D+5V 10
GND 2 11
+16V
A+6V
D+5V
CN7101 26P :B-TO-B
SUB+5V 26
SUB+5V 25
GND 2 24
GND 2 23
POWER CONT 22
FAN PROT 21
FAN CONT(NC) 20
FAN PROT 19
FAN+B 18
FAN PROT 17
FAN GND 16
FAN+B 15
FAN PROT 14
FAN GND 13
AUDIO+B 12
AUDIO+B 11
GND 2 10
GND 2 9
+16V 8
+16V 7
GND 2 6
GND 2 5
A+6V 4
A+6V 3
GND 2 2
GND 2 1
TO GB BOARD CN7003
CN7108 10P WHT :S-MICRO
TO BA(2/3)BOARD CN2005
+9V 1
+9V 2
GND 2 3
GND 2 4
+5V 5
+5V 6
GND 2 7
GND 2 8
-5V 9
-5V 10
+9V
C7105 0.1 25V B:CHIP
C7104 47 16V
IC7102 TA78M09F 9V REG
C7103 0.1 25V B:CHIP
+12V
R7102 68 3W
C7102 47 16V
IC7101 PQ12SZ5U 12V REG
C7101 0.1 25V B:CHIP
+16V
+5V
R7103 #
C7108 0.1 25V B:CHIP
C7107 47 16V
C7106 0.1 25V B:CHIP
R7101 1.0 3W :RS
A+6V
IC7104 NJM79L05UA -5V REG
IC7103 PQ05SZ1U 5V REG
C7110 47 16V
C7111 0.1 25V B:CHIP
C7109 0.1 25V B:CHIP
-5V
-6V
D+5V
D+3.3V
O I G
CN7102 26P :B-TO-B
D+5V 26
D+5V 25
GND 2 24
+16V 23
+16V 22
GND 2 21
GND 2 20
A+6V 19
A+6V 18
GND 2 17
GND 2 16
-6V 15
-6V 14
D+5V 13
D+5V 12
D+5V 11
GND 2 10
GND 2 9
GND 2 8
D+3.3V 7
D+3.3V 6
D+3.3V 5
D+3.3V 4
GND 2 3
GND 2 2
GND 2 1
TO GB BOARD CN7004
CN7109 13P WHT :S-MICRO
TO BB(2/6)BOARD CN3002
D+5V 1
D+5V 2
D+5V 3
GND 2 4
GND 2 5
GND 2 6
D+3.3V 7
D+3.3V 8
D+3.3V 9
D+3.3V 10
GND 2 11
GND 2 12
GND 2 13
GBA(REGURATOR,FAN PROTECT)
B-SS1678<AEP>-GBA

BB BOARD WAVEFORMS (1/6)

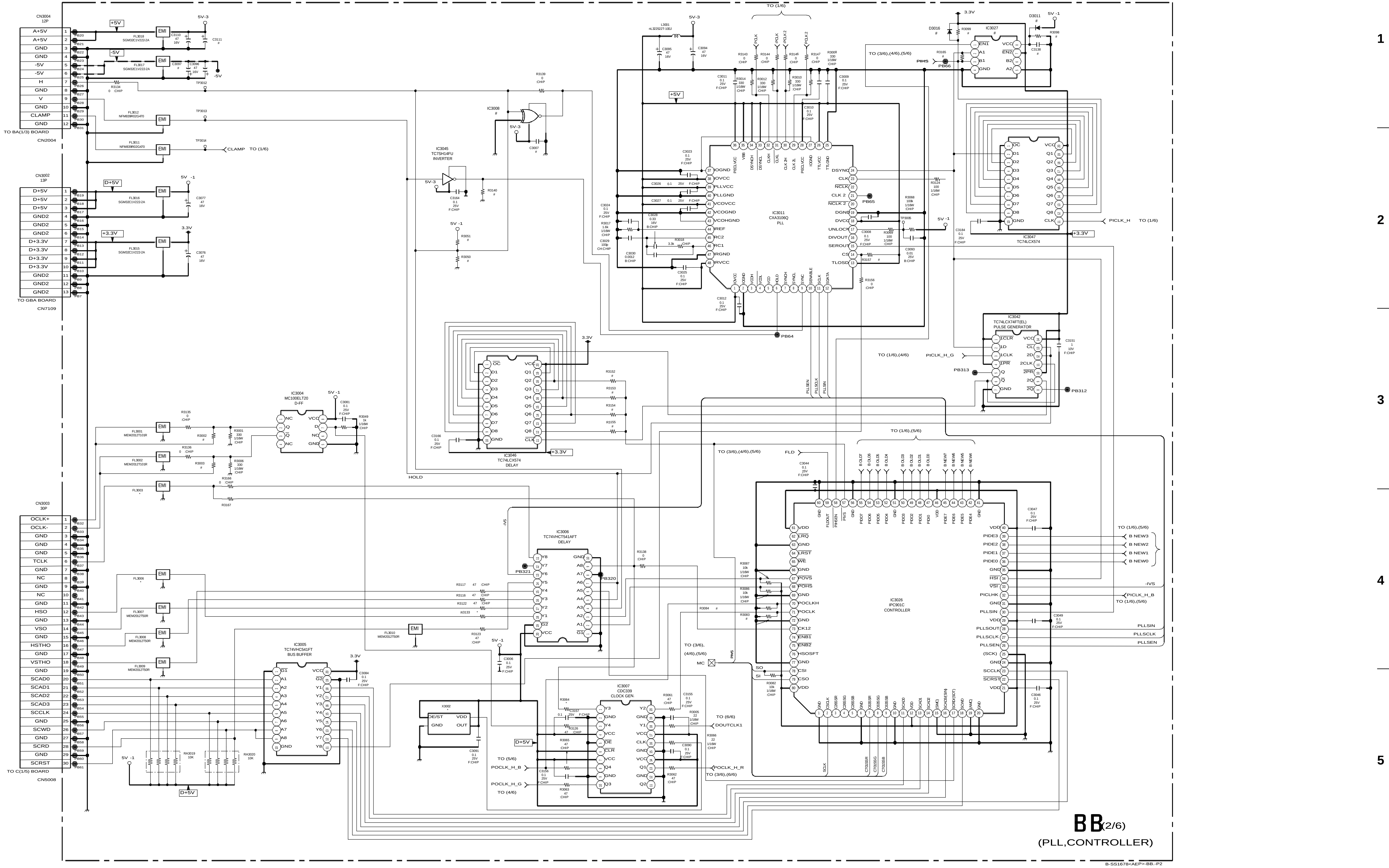


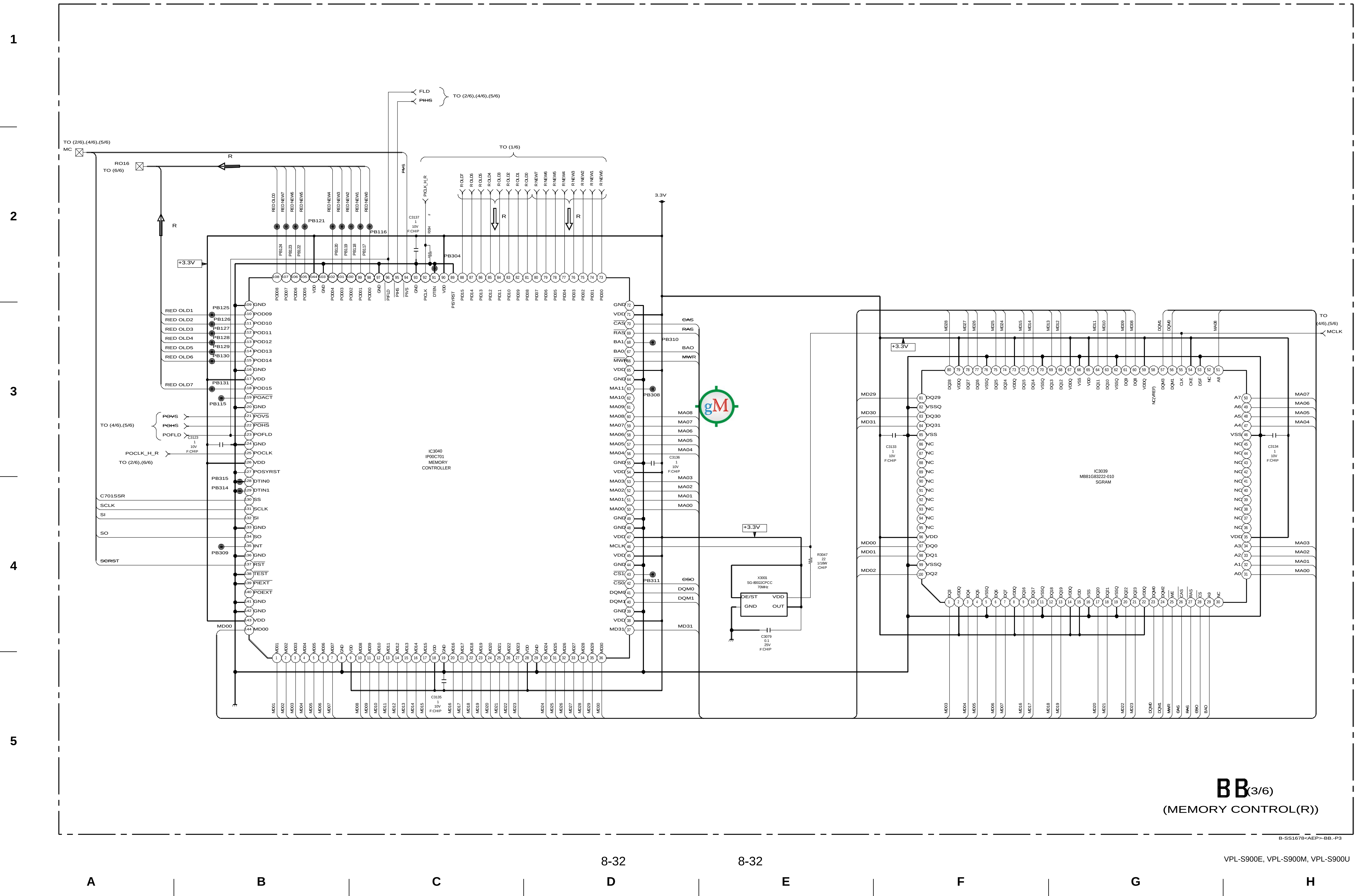
BB BOARD WAVEFORMS (6/6)




1
2
3
4
5
CN3005
6P
R
GND
G
GND
B
GND
TO BA(1/3)BOARD
CN2003
PB1
PB2
PB3
PB4
PB5
PB6
-5V
R3040
75
:RN-CP
TP300
R3038
750
:RN-CP
IC3029
EL4093C
IN+
SH0
SH-
V-
SH+
V-
CH
NC
IN-
NC
VO
H
V+
DG
V+
AG
5V-3
+5V
R3036
47
:CHIP
AN RED
CLAMP TO (2/6)
R3067
1k
1/16W
:CHIP
R3037
C3070
C3092
33p
CH:CHIP
C3074
0.1
25V
F:CHIP
R3039
750
:RN-CP
C3073
2.2
16V
F:CHIP
R3158
10M
1/16W
:CHIP
C3072
0.1
25V
F:CHIP
C3071
0.0022
C3069
0.1
25V
F:CHIP
C3068
2.2
16V
F:CHIP
R3022
750
:RN-CP
G
TP3007
R3024
75
:RN-CP
IC3018
EL4093C
R3019
47
:CHIP
AN GREEN
R3021
C3037
C3036
R3023
C3035
R3159
C3034
C3033
C3032
C3031
R3028
750
:RN-CP
B
TP3006
R3030
75
:RN-CP
IC3021
EL4093C
R3026
47
:CHIP
AN BLUE
R3027
C3058
C3062
R3029
C3061
R3160
C3060
C3059
C3057
C3056
TO (3/6)
R NEW3
R NEW2
R NEW1
R NEW0
R OLD7
R OLD6
R OLD5
R OLD4
C3140
C3139
RA3035
100K4
RA3034
100K4
5V-1
5V-3
L3006
+5V
PB70
PB79
RA3040
100K4
R NEW4
R NEW5
R NEW6
R NEW7
PB71
PB72
PB73
PB74
P1D4
P1D5
P1D6
P1D7
DGND2
DVCC2
CLKOUT
INV
SELECT
-RESETN/T
RESET/E
-RESETN/E
C3130
R3043
22
1/16W
:CHIP
PICLK_H_R
PICLK_H
PCLK 2
-PCLK 2
TO (2/6)
IC3028
CXA3026Q
A/D CONVERTER
(R)
P2D3
P2D2
P2D1
P2D0
NC
CLK/T
-CLKN/E
CLK/E
PB78
PB77
PB76
PB75
RA3033
100K4
R OLD3
R OLD2
R OLD1
R OLD0
C3143
-PCLK
PCLK
DVEE3
VRB
AGND
VRM1
AVCC
VIN
VRM2
AVCC
VRM3
AGND
VRT
DGND3
P1D3
P1D2
P1D1
P1D0
DGND2
DVCC1
DVCC1
DGND1
P2D7
P2D6
P2D5
P2D4
L3004
BLm10A100S
C3141
C3142
47
16V
C3167
C3066
C3035
C3065
C3064
C3063
C3067
C3168
C3174
C3173
TO (2/6),(5/6)
B NEW3
B NEW2
B NEW1
B NEW0
B OLD7
B OLD6
B OLD5
B OLD4
C3126
C3125
RA3031
33X4
RA3026
33X4
L3010
PB102
PB111
RA3032
33X4
B NEW4
B NEW5
B NEW6
B NEW7
PB103
PB104
PB105
PB106
PICLK_H_B
R3032
22
1/16W
:CHIP
C3122
IC3020
CXA3026Q
A/D CONVERTER
(B)
RA3025
33X4
PB110
PB109
PB108
PB107
B OLD3
B OLD2
B OLD1
B OLD0
C3129
R3101
R3102
R3103
R3104
L3003
BLm10A100S
C3127
C3128
C3051
C3171
R3091
R3089
R3090
R3088
C3055
C3172
C3054
R3025
C3053
C3052
TO (4/6)
G NEW3
G NEW2
G NEW1
G NEW0
G OLD7
G OLD6
G OLD5
G OLD4
C3107
C3106
RA3023
100K4
RA3022
100K4
L3005
PB86
PB95
RA3024
100K4
G NEW4
G NEW5
G NEW6
G NEW7
PB87
PB88
PB89
PB90
C3105
PICLK_H_G
TO (2/6),(4/6)
R3020
22
1/16W
:CHIP
IC3017
CXA3026Q
A/D CONVERTER
(G)
RA3021
100K4
PB94
PB93
PB92
PB91
G OLD3
G OLD2
G OLD1
G OLD0
C3121
L3002
BLm10A100S
C3108
C3109
C3169
C3170
C3021
R3016
C3020
C3019
C3018
C3022
IC3031
TL431CPK
SHUNT REG
R3044
22
1/4W
:CHIP
R3046
1k
:RN-CP
R3045
4.3k
1/16W
:RN-CP
C3180
C3145
10
16V
TP3011
PB62
VRT
IC3041(2/2)
μPC358G2
DC SHIFT
5V-3
C3147
R3109
2.2k
1/16W
:RN-CP
C3148
R3110
2k
1/16W
:RN-CP
IC3041(1/2)
μPC358G2
DC SHIFT
R3108
100
1/16W
:CHIP
R3114
2.2k
1/16W
:CHIP
C3149
C3150
Q3001
2SA1832
DC SHIFT
C3179
C3144
10
16V
R3115
68
:CHIP
TP3010
PB63
TP3009
BB(1/6)
(A/D CONVERTER)
B-SS1678<AEP>-BB.-P1

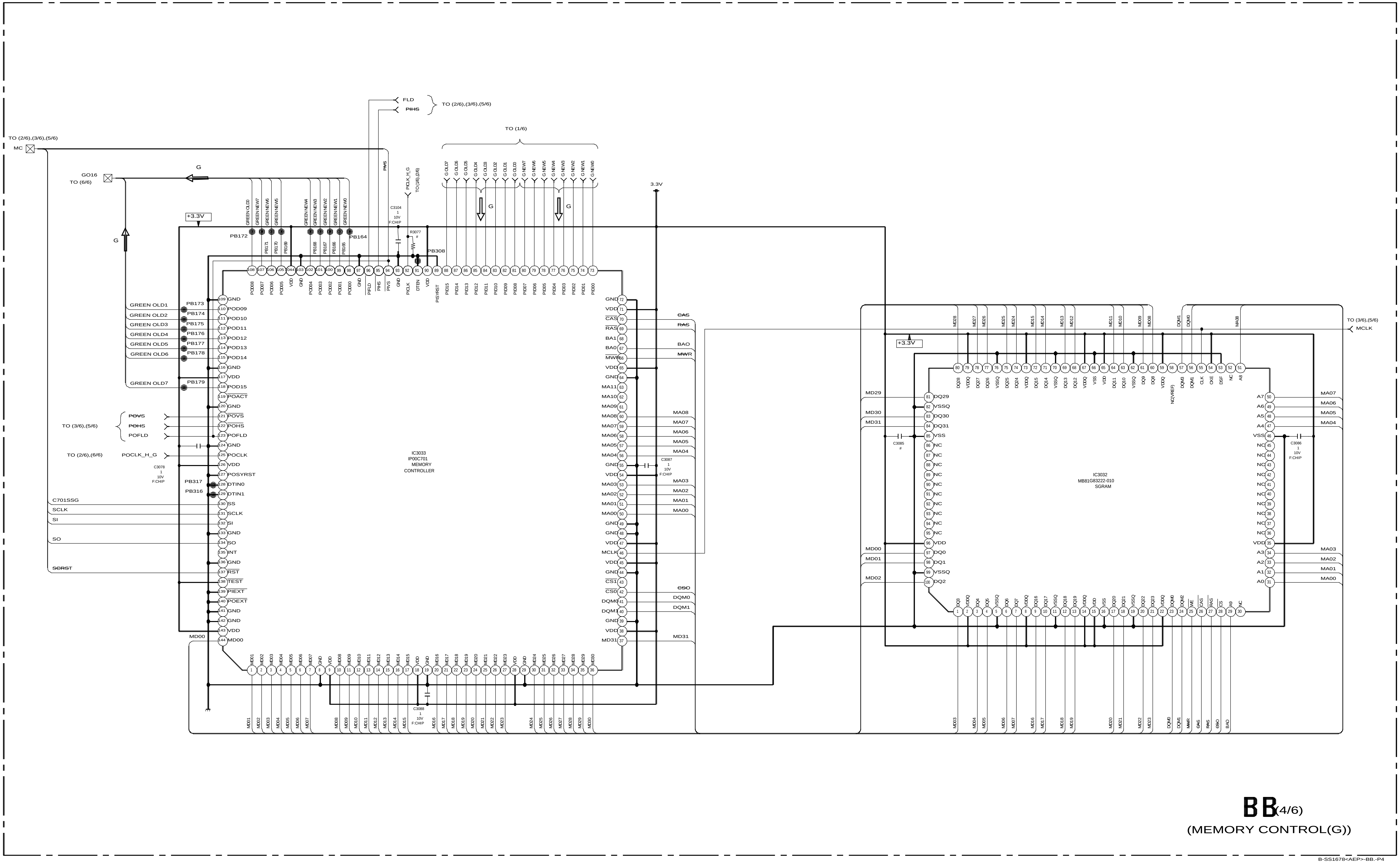
A B C D E F G H


CN3004 12P
A+5V
A+5V
GND
GND
-5V
-5V
H
GND
V
GND
CLAMP
GND
TO BA(1/3) BOARD
CN2004
CN3002 13P
D+5V
D+5V
D+5V
GND2
GND2
GND2
D+3.3V
D+3.3V
D+3.3V
D+3.3V
GND2
GND2
GND2
TO GBA BOARD
CN7109
CN3003 30P
OCLK+
OCLK-
TCLK
NC
HSO
VSO
HSTHO
VSTHO
SCAD0
SCAD1
SCAD2
SCAD3
SCCLK
SCWD
SCRD
SCRST
TO C(1/5) BOARD
CN5008
+5V
-5V
D+5V
+3.3V
EMI
5V-3
5V -1
3.3V
CLAMP TO (1/6)
IC3045 TC7SH14FU INVERTER
IC3008
IC3004 MC100ELT20 D-FF
IC3046 TC74LCX574 DELAY
IC3006 TC74VHCT541AFT DELAY
IC3005 TC74VHC541FT BUS BUFFER
X3002
IC3007 CDC339 CLOCK GEN.
IC3011 CXA3106Q PLL
IC3027
IC3047 TC74LCX574
IC3042 TC74LCX74FT(EL) PULSE GENERATOR
IC3026 IPC901C CONTROLLER
L3001
TO (1/6)
TO (3/6),(4/6),(5/6)
PICLK_H TO (1/6)
TO (1/6),(4/6)
PICLK_H_G
PB313
PB312
PB64
PB65
PB66
PB320
PB321
HOLD
FLD
TO (1/6),(5/6)
B NEW3
B NEW2
B NEW1
B NEW0
-IVS
PICLK_H_B
PLLSIN
PLLSCLK
PLLSEN
TO (6/6)
DOUTCLK1
POCLK_H_R
TO (3/6),(6/6)
TO (5/6)
POCLK_H_B
POCLK_H_G
TO (4/6)
MC
SO
SI
D+5V
BB(2/6)
(PLL,CONTROLLER)
B-SS1678<AEP>-BB.-P2
1
2
3
4
5
A
B
C
D
E
F
G
H


1
2
3
4
5
A
B
C
D
E
F
G
H
TO (2/6),(4/6),(5/6)
MC
RO16
TO (6/6)
FLD
PIHS
TO (2/6),(4/6),(5/6)
TO (1/6)
R
3.3V
+3.3V
PB121
PB116
PB304
C3137
1
10V
F:CHIP
RED OLD1
RED OLD2
RED OLD3
RED OLD4
RED OLD5
RED OLD6
RED OLD7
PB125
PB126
PB127
PB128
PB129
PB130
PB131
PB115
TO (4/6),(5/6)
POVS
POHS
POFLD
C3123
1
10V
F:CHIP
POCLK_H_R
TO (2/6),(6/6)
PB315
PB314
C701SSR
SCLK
SI
SO
PB309
SCRST
MD00
IC3040
IP00C701
MEMORY
CONTROLLER
PB310
PB308
PB311
CAS
RAS
BAO
MWR
MA08
MA07
MA06
MA05
MA04
C3136
1
10V
F:CHIP
MA03
MA02
MA01
MA00
CSO
DQM0
DQM1
MD31
C3135
1
10V
F:CHIP
+3.3V
X3001
SG-8002JCPCC
70MHz
OE/ST
VDD
GND
OUT
R3047
22
1/16W
:CHIP
C3079
0.1
25V
F:CHIP
TO
(4/6),(5/6)
MCLK
MD29
MD30
MD31
MD00
MD01
MD02
C3133
1
10V
F:CHIP
IC3039
MB81G83222-010
SGRAM
C3134
1
10V
F:CHIP
MA07
MA06
MA05
MA04
MA03
MA02
MA01
MA00

BB(3/6)
(MEMORY CONTROL(R))

B-SS1678<AEP>-BB.-P3

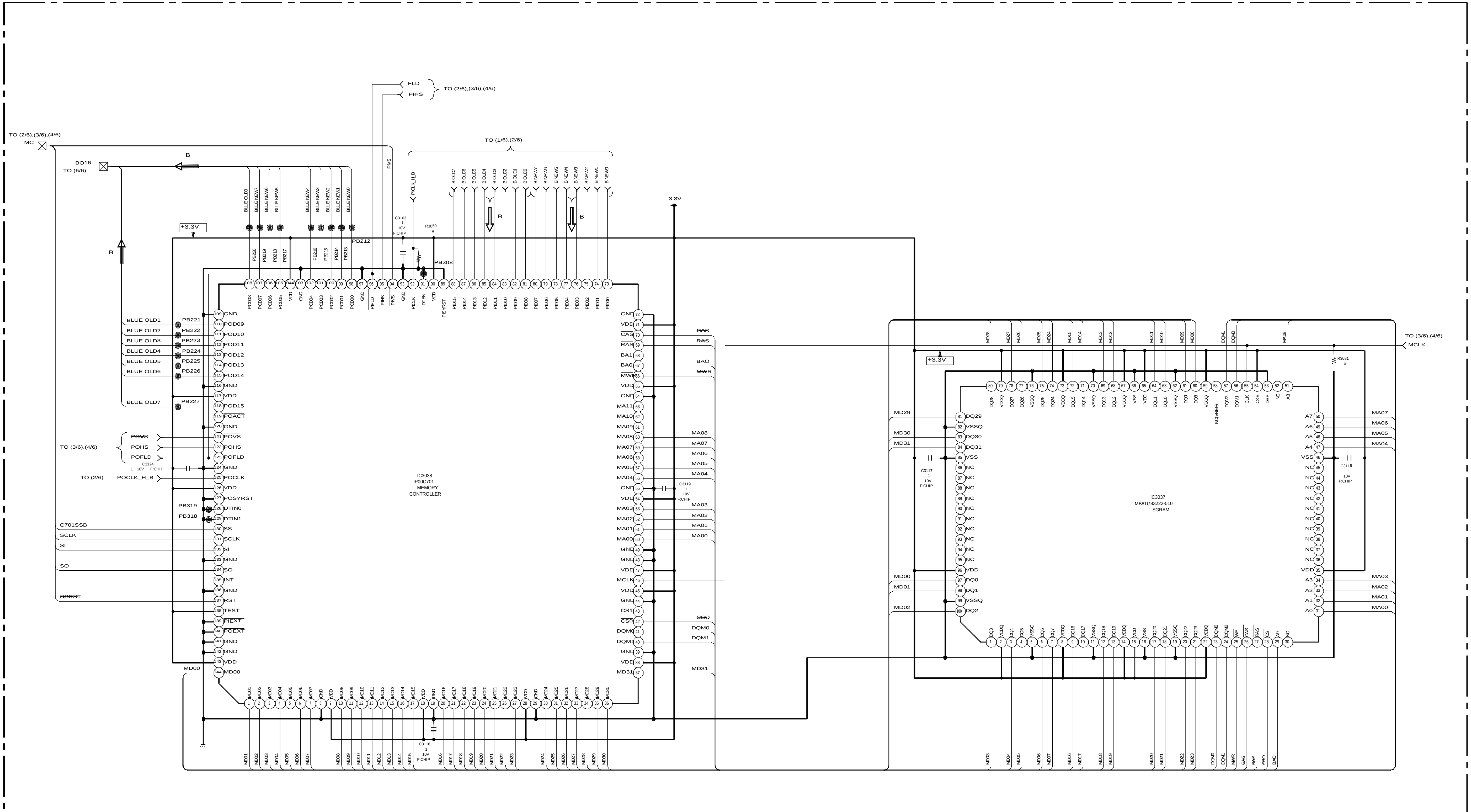

TO (2/6),(3/6),(5/6)
MC
GO16
TO (6/6)
G
+3.3V
PB172
PB164
PB308
FLD
PIHS
TO (2/6),(3/6),(5/6)
TO (1/6)
PICLK_H_G
TO (1/6),(2/6)
C3104
1
10V
F:CHIP
R3077
#
3.3V
GREEN OLD1
GREEN OLD2
GREEN OLD3
GREEN OLD4
GREEN OLD5
GREEN OLD6
GREEN OLD7
PB173
PB174
PB175
PB176
PB177
PB178
PB179
POVS
POHS
POFLD
TO (3/6),(5/6)
TO (2/6),(6/6)
POCLK_H_G
C3078
1
10V
F:CHIP
PB317
PB316
C701SSG
SCLK
SI
SO
SCRST
MD00
IC3033
IP00C701
MEMORY
CONTROLLER
C3087
1
10V
F:CHIP
CAS
RAS
BAO
MWR
MA08
MA07
MA06
MA05
MA04
MA03
MA02
MA01
MA00
CSO
DQM0
DQM1
MD31
C3088
1
10V
F:CHIP
TO (3/6),(5/6)
MCLK
+3.3V
MD29
MD30
MD31
C3085
#
MD00
MD01
MD02
IC3032
MB81G83222-010
SGRAM
C3086
1
10V
F:CHIP
MA07
MA06
MA05
MA04
MA03
MA02
MA01
MA00

BB(4/6)
(MEMORY CONTROL(G))

B-SS1678<AEP>-BB.-P4

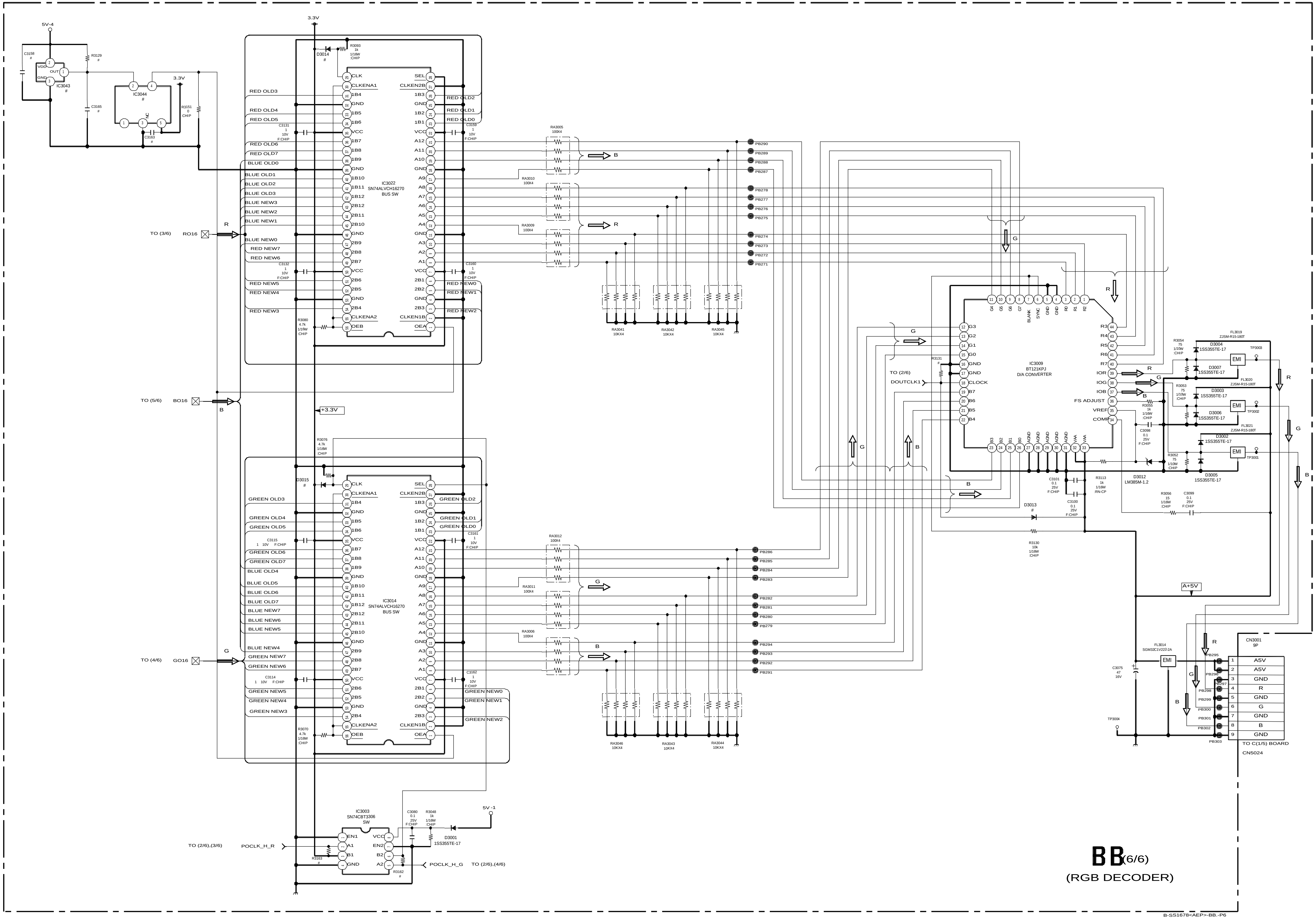
1
2
3
4
5

A B C D E F G H


TO (2/6),(3/6),(4/6)
MC
BO16
TO (6/6)
B
FLD
PIHS
TO (2/6),(3/6),(4/6)
TO (1/6),(2/6)
PICLK_H_B
3.3V
+3.3V
C3103 1 10V F:CHIP
R3059
PB212
PB308
BLUE OLD1
BLUE OLD2
BLUE OLD3
BLUE OLD4
BLUE OLD5
BLUE OLD6
BLUE OLD7
PB221
PB222
PB223
PB224
PB225
PB226
PB227
TO (3/6),(4/6)
POVS
POHS
POFLD
C3124 1 10V F:CHIP
TO (2/6)
POCLK_H_B
PB319
PB318
C701SSB
SCLK
SI
SO
SCRST
MD00
IC3038
IP00C701
MEMORY
CONTROLLER
C3119 1 10V F:CHIP
C3118 1 10V F:CHIP
CAS
RAS
BAO
MWR
MA08
MA07
MA06
MA05
MA04
MA03
MA02
MA01
MA00
CS0
DQM0
DQM1
MD31
TO (3/6),(4/6)
MCLK
R3081
+3.3V
MD29
MD30
MD31
MD00
MD01
MD02
C3117 1 10V F:CHIP
C3116 1 10V F:CHIP
IC3037
MB81G83222-010
SGRAM

BB(5/6)
(MEMORY CONTROL(B))

B-SS1678<AEP>-BB.-P5


5V-4
IC3043
IC3044
3.3V
C3158
R3129
C3165
C3163
R3151
D3014
R3093
IC3022
SN74ALVCH16270
BUS SW
IC3014
SN74ALVCH16270
BUS SW
RED OLD0
RED OLD1
RED OLD2
RED OLD3
RED OLD4
RED OLD5
RED OLD6
RED OLD7
BLUE OLD0
BLUE OLD1
BLUE OLD2
BLUE OLD3
BLUE OLD4
BLUE OLD5
BLUE OLD6
BLUE OLD7
BLUE NEW0
BLUE NEW1
BLUE NEW2
BLUE NEW3
BLUE NEW4
BLUE NEW5
BLUE NEW6
BLUE NEW7
RED NEW0
RED NEW1
RED NEW2
RED NEW3
RED NEW4
RED NEW5
RED NEW6
RED NEW7
GREEN OLD0
GREEN OLD1
GREEN OLD2
GREEN OLD3
GREEN OLD4
GREEN OLD5
GREEN OLD6
GREEN OLD7
GREEN NEW0
GREEN NEW1
GREEN NEW2
GREEN NEW3
GREEN NEW4
GREEN NEW5
GREEN NEW6
GREEN NEW7
CLK
CLKENA1
CLKENA2
CLKEN2B
CLKEN1B
SEL
OEB
OEA
VCC
GND
TO (3/6)　RO16
TO (5/6)　BO16
TO (4/6)　GO16
R
G
B
+3.3V
RA3005 100K4
RA3010 100K4
RA3009 100K4
RA3012 100K4
RA3011 100K4
RA3006 100K4
RA3041 10KX4
RA3042 10KX4
RA3045 10KX4
RA3046 10KX4
RA3043 10KX4
RA3044 10KX4
R3080 4.7k 1/16W CHIP
R3076 4.7k 1/16W CHIP
R3070 4.7k 1/16W CHIP
D3015
PB271
PB272
PB273
PB274
PB275
PB276
PB277
PB278
PB279
PB280
PB281
PB282
PB283
PB284
PB285
PB286
PB287
PB288
PB289
PB290
PB291
PB292
PB293
PB294
IC3009
BT121KPJ
D/A CONVERTER
G0
G1
G2
G3
G4
G5
G6
G7
B0
B1
B2
B3
B4
B5
B6
B7
R0
R1
R2
R3
R4
R5
R6
R7
BLANK
SYNC
CLOCK
IOR
IOG
IOB
FS ADJUST
VREF
COMP
AGND
VAA
TO (2/6)
DOUTCLK1
R3131
R3055 1k 1/16W CHIP
C3098 0.1 25V F:CHIP
R3054 75 1/10W CHIP
R3053 75 1/10W CHIP
R3052 75 1/10W CHIP
D3004 1SS355TE-17
D3007 1SS355TE-17
D3003 1SS355TE-17
D3006 1SS355TE-17
D3002 1SS355TE-17
D3005 1SS355TE-17
FL3019 ZJSM-R15-180T
FL3020 ZJSM-R15-180T
FL3021 ZJSM-R15-180T
EMI
TP3003
TP3002
TP3001
D3012 LM385M-1.2
R3113 1k 1/16W RN-CP
C3101 0.1 25V F:CHIP
C3100 0.1 25V F:CHIP
D3013
R3130 10k 1/16W CHIP
R3056 15 1/16W CHIP
C3099 0.1 25V F:CHIP
A+5V
FL3014 SGM32C1V222-2A
C3075 47 16V
TP3004
CN3001 9P
A5V
A5V
GND
R
GND
G
GND
B
GND
PB295
PB296
PB297
PB298
PB299
PB300
PB301
PB302
PB303
TO C(1/5) BOARD
CN5024
IC3003
SN74CBT3306
SW
EN1
EN2
A1
A2
B1
B2
C3080 0.1 25V F:CHIP
R3048 1k 1/16W CHIP
5V-1
D3001 1SS355TE-17
TO (2/6),(3/6)　POCLK_H_R
POCLK_H_G　TO (2/6),(4/6)
R3163
R3162
B-SS1678<AEP>-BB.-P6
1
2
3
4
5
A
B
C
D
E
F
G
H

BB (6/6)
(RGB DECODER)

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